



**cable carrying,
protection and ending
systems**



2022

GENERAL CATALOG

www.msmmuhendislik.com

www.exproof.info



**ATEX certified
local (MSM) ex-proof
electrical materials**

EMT - IMC - RSC - BS Type Conduits & General Accessories Series

Rigid Metal Conduits (Local) & General Accessories Series

Flexible Steel Conduits & General Accessories Series

PVC - H.Free Conduits & General Accessories Series

Ex-Proof ATEX Certified Electrical Materials

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OWN PRODUCTION EX-PROOF CABLE GLANDS & CONDUIT CONNECTORS	OWN PRODUCTION EX-PROOF REDUCERS & ADAPTORS, BLIND PLUGS	OWN PRODUCTION EX-PROOF NIP. & COUPLINGS, SEALING FITTINGS & J. BOXES	IMPORTED EX-PROOF ELECTRICAL MATERIALS & LIGHTING FIXTURES & ACC.	



The company leaving **22 years** behind since its establishment has reached its current corporate structure, parallel to the progress of the industry and demand diversification, developing its marketing and manufacturing portfolio.

Considering both the technological developments in the industry and the consumer trends, our company keeps improving manufacturing and marketing abilities in order to carry out activities such as manufacturing, marketing and sales of **cable protecting, carrying, ending and ex-proof electrical systems**.

Our Company achieves its regularly updated annual goals following strict working discipline, providing high quality service and improving manufacturing capacity, which has been strengthened with the addition of imported goods. With work directed towards presenting customer focused solutions and with the **highly qualified and experienced specialists** the Company became one of the most trusted companies in the industry.

Besides these, extending our network in the globalized world further, strengthening our import activities we have done necessary agreements with **foreign manufacturers and suppliers** in order to be able to provide product and services with the best quality and price alternatives to our clients.

Cable carrying conduits and related accessories are our main area of activity. In order to meet the ever-increasing use and consequently increasing demand in recent years of the **Ex-Proof electrical materials** in our country we have expanded our portfolio by adding **production activities** of our group production company **MSM TECHNIC** alongside import activities ones. We are proud to have earned the ATEX and EAC certificate to MSM origin products.

We are proud to provide our business partners smooth service in prestigious projects with the possession of quality certificates for locally manufactured materials, as well as possession of **ISO 9001-2015** documentation, renewed **CE** and **GOST-R-EAC** materials quality documents, and especially proud to present imported UL certified new products.

Our objective is a continuous development of efficiency in our area of expertise with the aim of increasing the Company's strength and productivity in national and international markets. In addition to taking part in prestigious projects of our country, we are also proud to be involved in projects especially in Central Asian Republics and Central European countries.

Our Company is happy to present to you, our valuable customers, this catalogue, which covers our locally manufactured new products as well as new generation products we have added to our sales portfolio.

With the wish of establishing trustworthy links...

Hakan ONLAT

Deputy General Manager

Marketing & Offers Group Manager

Selin SARAÇ

Deputy General Manager

Import & Export Group Manager

Selahattin SARAÇ

Electrical Engineer

General Manager



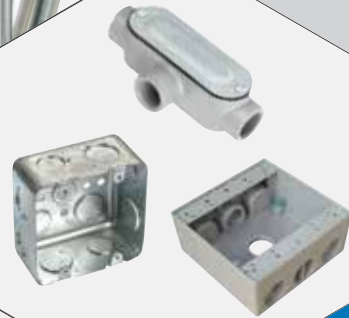
EMT-IMC-RSC-BS Type Conduits & General Accessories Series

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cable protection, carrying and ending systems

04

IMPORTED PRODUCTS



- ▶ EMT Galv. Threadless Steel Conduits
- ▶ EMT Galv. Threadless Steel Conduit Acc. (Connectors)
- ▶ EMT Galv. Threadless Steel Conduit Acc. (Couplings)
- ▶ EMT Galv. Threadless Steel Conduit Acc. (Clamps/Straps)
- ▶ EMT Galv. Threadless Steel Conduit Acc. (Elbows)
- ▶ EMT Galv. Threadless Steel Conduit Acc. (Adaptors)
- ▶ EMT Galv. Threadless Steel Conduit Acc. (General)
- ▶ Metal Junction Boxes and Acc. for Indoor Use
- ▶ BS Type Galvanized Threaded Steel Conduit and Acc.

- ▶ IMC Threaded Galvanized Conduits
- ▶ IMC Threaded Galvanized Conduit Acc. (Connectors)
- ▶ IMC Threaded Galvanized Conduit Acc. (Elbows)
- ▶ IMC Threaded Galvanized Conduit Acc. (Clamps)
- ▶ IMC Threaded Galvanized Conduit Acc. (Bushings)
- ▶ RSC Threaded Galvanized Steel Conduits and Acc.
- ▶ PVC Coated RSC Threaded Galvanized Steel Cond. and Acc.
- ▶ Galvanized Steel Conduit Acc. (Condulets)
- ▶ Cast Aluminum Junction Boxes and Acc. for Outdoor Use

EMT GALVANIZED THREADLESS STEEL CONDUITS / PRE-GALVANIZED COATING / STANDARD TYPE



- Certified by ANSI C80.3, GOST-R, CE.
- Burr-free electrical installation conduits.
- Standard product length **3.00 m.**
- Pre-galvanized coating and **bendable.**
- ±5% tolerance of all below-mentioned physical characteristics.
- Especially used in construction of social buildings, business centers, workshops and high-rise buildings.

MSM Code	Manufacturer's Code	Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
EMT-101	EMT-050P	1/2"	15,79 x 17,93	1,07	0,44	1,32	10	13,20
EMT-102	EMT-075P	3/4"	20,92 x 23,42	1,25	0,68	2,04	10	20,04
EMT-103	EMT-100P	1"	26,64 x 29,54	1,45	1,00	3,00	10	30,00
EMT-104	EMT-125P	1 1/4"	35,05 x 38,35	1,65	1,49	4,46	5	22,35
EMT-105	EMT-150P	1 1/2"	40,90 x 44,20	1,65	1,73	5,18	5	25,95
EMT-106	EMT-200P	2"	52,50 x 55,80	1,65	2,20	6,60	3	19,80
EMT-107	EMT-250P	2 1/2"	69,37 x 73,03	1,83	3,07	9,22	3	27,66
EMT-108	EMT-300P	3"	85,24 x 88,90	1,83	3,87	11,60	2	23,20
EMT-109	EMT-400P	4"	110,10 x 114,30	2,11	5,81	17,43	2	35,00

EMT GALVANIZED THREADLESS STEEL CONDUITS / PRE-GALVANIZED COATING / THINNER WALL/THICKNESS TYPE



- Certified by ANSI C80.3, GOST-R, EAC, CE.
- Burr-free electrical installation conduits.
- Standard product length **3.00 m.**
- Pre-galvanized coating and **non-bending.**
- ±5% tolerance of all below-mentioned physical characteristics.
- It can be used in installations that do not require bending, especially used in construction of social buildings, business centers, workshops and high-rise buildings.

MSM Code	Manufacturer's Code	Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
EMT-101.T	EMT-050T	1/2"	16,43 x 17,93	0,80	0,37	1,10	10	22,00
EMT-102.T	EMT-075T	3/4"	21,72 x 23,42	0,90	0,47	1,40	10	14,00
EMT-103.T	EMT-100T	1"	27,64 x 29,54	1,00	0,60	1,80	10	18,00
EMT-104.T	EMT-125T	1 1/4"	35,95 x 38,35	1,30	0,93	2,80	5	14,00
EMT-105.T	EMT-150T	1 1/2"	38,50 x 44,20	1,30	1,27	3,80	5	19,00
EMT-106.T	EMT-200T	2"	49,90 x 55,80	1,40	1,73	5,20	3	26,00
EMT-107.T	EMT-250T	2 1/2"	69,73 x 73,03	1,65	2,70	8,10	3	24,30
EMT-108.T	EMT-300T	3"	85,60 x 88,90	1,65	3,20	9,80	2	28,80
EMT-109.T	EMT-400T	4"	110,50 x 114,30	1,90	4,80	14,40	2	43,20

EMT GALVANIZED THREADLESS STEEL CONDUITS / HOT-DIP GALVANIZED / STANDARD TYPE



- Certified by UL 797 and ANSI C80.3, GOST-R, EAC, CE.
- Burr-free electrical installation conduits.
- Standard product length **3.05 m.**
- Hot-dip galvanized coating and **bendable.**
- $\pm 5\%$ tolerance of all below-mentioned physical characteristics
- Especially used in construction of social, industrial buildings, ships etc. suitable for outdoor use and wet conditions.

MSM Code	Manufacturer's Code	Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
EMT-101.H	C-E00050	1/2"	15,79 x 17,93	1,07	0,45	1,36	10	13,60
EMT-102.H	C-E00075	3/4"	20,94 x 23,42	1,24	0,69	2,09	10	20,90
EMT-103.H	C-E00100	1"	26,64 x 29,54	1,45	1,00	3,04	10	30,04
EMT-104.H	C-E00125	1 1/4"	35,05 x 38,35	1,65	1,50	4,58	5	22,90
EMT-105.H	C-E00150	1 1/2"	40,90 x 44,20	1,65	1,72	5,26	5	26,30
EMT-106.H	C-E00200	2"	52,50 x 55,80	1,65	2,20	6,71	3	20,13
EMT-107.H	C-E00250	2 1/2"	69,37 x 73,03	1,83	3,21	9,80	3	29,40
EMT-108.H	C-E00300	3"	85,24 x 88,90	1,83	3,91	11,93	2	23,86
EMT-109.H	C-E00400	4"	110,08 x 114,30	2,11	5,85	17,83	2	35,66

EMT GALVANIZED THREADLESS STEEL CONDUITS / HOT-DIP GALVANIZED / THINNER WALL THICKNESS TYPE



- Certified by ANSI C80.3, GOST-R, EAC, CE.
- Burr-free electrical installation conduits.
- Standard product length **2.90 m.**
- Hot-dip galvanized coating and **non-bending.**
- $\pm 5\%$ tolerance of all below-mentioned physical characteristics
- It can be used in installations that do not require bending, especially used in construction of social, industrial buildings, ships etc. suitable for outdoor use and wet conditions.

MSM Code	Manufacturer's Code	Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
EMT-101.HT	C-Z00050	1/2"	16,33 x 17,93	0,80	0,35	1,00	10	10,00
EMT-102.HT	C-Z00075	3/4"	21,82 x 23,42	0,80	0,45	1,30	10	13,00
EMT-103.HT	C-Z00100	1"	27,94 x 29,54	0,80	0,55	1,60	10	16,00
EMT-104.HT	C-Z00125	1 1/4"	36,35 x 38,35	1,00	0,80	2,30	5	11,50
EMT-105.HT	C-Z00150	1 1/2"	42,20 x 44,20	1,00	1,10	3,20	5	16,00
EMT-106.HT	C-Z00200	2"	53,80 x 55,80	1,00	1,72	5,00	3	25,00

NOTE: All EMT type conduits and accessories can be coated with electrostatic paint in the desired RAL... colors

SCREW TYPE ENDING CONNECTOR / ZAMAK

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used to connect EMT conduits to junction and terminal boxes and cable trays.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
ME-501	SSCN-050	1/2"	100	2,00
ME-502	SSCN-075	3/4"	100	3,20
ME-503	SSCN-100	1"	50	2,80
ME-504	SSCN-125	1 1/4"	25	2,20
ME-505	SSCN-150	1 1/2"	20	2,20
ME-506	SSCN-200	2"	10	1,60
ME-507	SSCN-250	2 1/2"	40	11,0
ME-508	SSCN-300	3"	40	16,0
ME-509	SSCN-400	4"	20	11,0

Note: This connector is also available in 90° degree (3/4", 1", 1 1/4") sizes.

SCREW TYPE ENDING CONNECTOR / STEEL

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Steel.
- Used to connect EMT conduits to junction and terminal boxes and cable trays.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
ME-721	H-50S	1/2"	50	2,12
ME-722	H-75S	3/4"	25	1,49
ME-723	H-100S	1"	20	1,89
ME-724	H-125S	1 1/4"	25	4,10
ME-725	H-150S	1 1/2"	25	4,50
ME-726	H-200S	2"	20	4,70
ME-727	H-250S	2 1/2"	12	4,00
ME-728	H-300S	3"	12	4,80
ME-729	H-400S	4"	6	3,30

COMPRESSION TYPE ENDING CONNECTOR / ZAMAK

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used to connect EMT conduits to junction and terminal boxes and cable trays.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
ME-601	CCN-050	1/2"	100	3,00
ME-602	CCN-075	3/4"	50	2,40
ME-603	CCN-100	1"	50	3,80
ME-604	CCN-125	1 1/4"	25	2,80
ME-605	CCN-150	1 1/2"	20	3,40
ME-606	CCN-200	2"	10	2,60
ME-607	CCN-250	2 1/2"	40	13,00
ME-608	CCN-300	3"	40	18,00
ME-609	CCN-400	4"	20	15,00

Note: 2 1/2", 3", 4" sizes of this connector are made of steel origin.

COMPRESSION TYPE ENDING CONNECTOR / STEEL

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Steel.
- Used to connect EMT conduits to junction and terminal boxes and cable trays.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
ME-701	ZC-50S	1/2"	25	1,43
ME-702	ZC-75S	3/4"	25	2,05
ME-703	ZC-100S	1"	10	1,32
ME-704	ZC-125S	1 1/4"	25	4,40
ME-705	ZC-150S	1 1/2"	20	5,00
ME-706	ZC-200S	2"	15	4,80
ME-707	ZC-250S	2 1/2"	8	6,00
ME-708	ZC-300S	3"	4	3,60
ME-709	ZC-400S	4"	4	5,00

SCREW TYPE COUPLING / ZAMAK

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used in screw type connections of EMT conduits.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-511	SSCP-050	1/2"	100	2,20
ME-512	SSCP-075	3/4"	100	3,20
ME-513	SSCP-100	1"	50	2,60
ME-514	SSCP-125	1 1/4"	25	2,20
ME-515	SSCP-150	1 1/2"	20	2,20
ME-516	SSCP-200	2"	10	1,60
ME-517	SSCP-250	2 1/2"	40	11,00
ME-518	SSCP-300	3"	40	14,00
ME-519	SSCP-400	4"	20	11,00

COMPRESSION TYPE COUPLING / ZAMAK

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used in compression type connections of EMT conduits.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-611	CCP-050	1/2"	100	3,80
ME-612	CCP-075	3/4"	50	2,80
ME-613	CCP-100	1"	50	4,20
ME-614	CCP-125	1 1/4"	25	3,40
ME-615	CCP-150	1 1/2"	20	3,60
ME-616	CCP-200	2"	10	2,40
ME-617	CCP-250	2 1/2"	40	14,70
ME-618	CCP-300	3"	40	18,80
ME-619	CCP-400	4"	20	16,60

Note: 2 1/2", 3", 4" sizes of this coupling are made of steel origin.

SCREW TYPE COUPLING / STEEL

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Steel.
- Used in screw type connections of EMT conduits.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-731	Z-50S	1/2"	50	1,87
ME-732	Z-75S	3/4"	25	1,34
ME-733	Z-100S	1"	20	1,66
ME-734	Z-125S	1 1/4"	25	4,20
ME-735	Z-150S	1 1/2"	25	4,70
ME-736	Z-200S	2"	20	5,20
ME-737	Z-250S	2 1/2"	12	7,00
ME-738	Z-300S	3"	12	9,00
ME-739	Z-400S	4"	6	6,40

COMPRESSION TYPE COUPLING / STEEL

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Steel.
- Used in compression type connections of EMT conduits.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-711	ZCC-50S	1/2"	25	1,70
ME-712	ZCC-75S	3/4"	25	2,30
ME-713	ZCC-100S	1"	10	1,43
ME-714	ZCC-125S	1 1/4"	25	4,70
ME-715	ZCC-150S	1 1/2"	20	5,80
ME-716	ZCC-200S	2"	15	4,70
ME-717	ZCC-250S	2 1/2"	8	7,00
ME-718	ZCC-300S	3"	4	4,20
ME-719	ZCC-400S	4"	4	6,10

TWO-HOLE CLAMP

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Electro-galvanized coating.
- Used to fix EMT conduits to a mounting surface.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-521	TSP-050	1/2"	100	1,05
ME-522	TSP-075	3/4"	100	1,30
ME-523	TSP-100	1"	50	0,85
ME-524	TSP-125	1 1/4"	50	1,05
ME-525	TSP-150	1 1/2"	25	1,09
ME-526	TSP-200	2"	20	1,26
ME-527	TSP-250	2 1/2"	100	10,0
ME-528	TSP-300	3"	100	13,0
ME-529	TSP-400	4"	50	9,0

ONE-HOLE CLAMP

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Electro-galvanized coating.
- Used to fix EMT conduits to a mounting surface.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-531	OSP-050	1/2"	200	1,60
ME-532	OSP-075	3/4"	200	2,00
ME-533	OSP-100	1"	100	1,40
ME-534	OSP-125	1 1/4"	50	1,20
ME-535	OSP-150	1 1/2"	50	1,70
ME-536	OSP-200	2"	25	1,10
ME-537	OSP-250	2 1/2"	100	15,0
ME-538	OSP-300	3"	100	16,5
ME-539	OSP-400	4"	50	10,0

CONDUIT HANGER

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Electro-galvanized coating.
- Used to fix EMT conduits to a mounting surface.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-571	CH-050	1/2"	400	12,0
ME-572	CH-075	3/4"	300	10,0
ME-573	CH-100	1"	200	9,0
ME-574	CH-125	1 1/4"	150	8,0
ME-575	CH-150	1 1/2"	100	7,0
ME-576	CH-200	2"	75	6,0
ME-577	CH-250	2 1/2"	50	6,0
ME-578	CH-300	3"	50	6,3
ME-579	CH-400	4"	25	4,0

RAIL TYPE CLAMP

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Electro-galvanized coating.
- Hot-dip galvanized clamps are also available.
- Used to fix EMT conduits to C and G profiles.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-581	SC-050E	1/2"	300	15,0
ME-582	SC-075E	3/4"	300	20,0
ME-583	SC-100E	1"	250	18,0
ME-584	SC-125E	1 1/4"	200	16,3
ME-585	SC-150E	1 1/2"	150	19,7
ME-586	SC-200E	2"	150	22,5
ME-587	SC-250	2 1/2"	100	17,0
ME-588	SC-300	3"	100	20,0
ME-589	SC-400	4"	50	14,8

NOTE: 2 1/2", 3", 4" sizes of Hangers and Clamps on this page can also be selected from the threaded conduit (IMC) series.

90° - THREADLESS ELBOW



- Certified by GOST-R, EAC and CE.
- Pre-galvanized coating
- UL certificated and hot-dip galvanized coating types are also available.
- Used for 90° turns of EMT conduits.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-541	8300	1/2"	200	20,0
ME-542	8301	3/4"	100	12,0
ME-543	8302	1"	50	16,0
ME-544	8303	1 1/4"	25	14,0
ME-545	8304	1 1/2"	20	16,0
ME-546	8305	2"	15	18,0
ME-547	8306	2 1/2"	10	20,0
ME-548	8307	3"	9	24,5
ME-549	8309	4"	9	43,0

45° - THREADLESS ELBOW



- Certified by GOST-R, EAC and CE.
- Pre-galvanized coating.
- UL certificated and hot-dip galvanized coating types are also available.
- Used for 45° turns of EMT conduits.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-641	8310	1/2"	100	10,60
ME-642	8311	3/4"	100	17,50
ME-643	8312	1"	50	17,50
ME-644	8313	1 1/4"	40	28,00
ME-645	8314	1 1/2"	40	32,50
ME-646	8315	2"	15	13,50
ME-647	8316	2 1/2"	10	20,00
ME-648	8317	3"	9	24,50
ME-649	8319	4"	9	43,00

90° - PULL CORNER ELBOW – SCREW TYPE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used in top controlled, angled turns of EMT conduits.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-651	ETE-050	1/2"	50	3,2
ME-652	ETE-075	3/4"	40	4,2
ME-653	ETE-100	1"	20	4,0

90° - CAPPED CORNER PULLING ELBOW – SCREW TYPE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast)
- Used in laterally controlled turns of EMT conduits.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-661	CCC-050	1/2"	50	3,6
ME-662	CCC-075	3/4"	25	2,2
ME-663	CCC-100	1"	20	3,2

EMT OFFSET CONNECTOR – SCREW ELBOW



- Certified by GOST, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used to connect EMT conduit to junction and terminal boxes and other boxes.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
ME-791	OFC-050	1/2"	100	3,4
ME-792	OFC-075	3/4"	50	2,2
ME-793	OFC-100	1"	50	3,0

90° - PULL CORNER ELBOW WITH A CONNECTOR – SCREW TYPE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast)
- Used in thread type 90° connections of EMT conduit to junction and terminal boxes and other castings.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
ME-631	ETB-050	1/2"	50	3,2
ME-632	ETB-075	3/4"	40	4,2
ME-633	ETB-100	1"	20	4,0

EMT CONDUIT GROUNDING - PVC INSULATED METAL BUSHING

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Cast iron.
- Electro-galvanized coating.
- Minimizes wire chafing by means of PVC insulation.
- Used in EMT conduit ending systems and as a grounding.

MSM Kod	Thread Type	Quantity per Package (pcs)	Package Weight (kg)
TB-G1.E	1/2"	100	2,3
TB-G2.E	3/4"	100	2,8
TB-G3.E	1"	50	2,1
TB-G4.E	1 1/4"	50	3,0
TB-G5.E	1 1/2"	40	2,5
TB-G6.E	2"	40	4,3
TB-G7.E	2 1/2"	20	2,6
TB-G8.E	3"	20	3,0
TB-G9.E	4"	10	4,0

CAST ALUMINUM BOXES / SWITCHES AND SOCKET OUTLETS

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Aluminum Cast.
- Conduit entry thread size is 1/2".
- Waterproof and sealed type.
- Any type of switch and socket can be mounted to the box.
- Suitable for use over plaster in EMT conduit installation.

MSM Code	Description	Size WxHxD (mm)
ME-771	One Gang Switch	82x97x68
ME-772	Two Gang – Two Way Switch	82x97x68
ME-773	Two Gang Switch	82x97x68
ME-774	Socket Outlet with Grounding	82x97x68
ME-775	Telephone Outlet	82x97x68
ME-776	Data Outlet	82x97x68
ME-777	UPS Outlet	82x97x68
ME-778	TV Outlet	82x97x68

T-TYPE DISTRIBUTOR

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Copper, nickel coating. According to request electro galvanized coating can be made.
- Used to distribute cables inside the EMT conduits.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-761	TD-01	1/2"	50	1,6
ME-762	TD-02	3/4"	50	2,2

PVC END CAP – TRANSPARENT (ENDING)

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Polyethylene.
- Fits tightly over EMT conduits.
- According to request, it can be produced in black and grey.
- Used in EMT conduit ending systems.

MSM Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-561	1/2"	100	0,1
ME-562	3/4"	100	0,2
ME-563	1"	100	0,4
ME-564	1 1/4"	50	0,4
ME-565	1 1/2"	50	0,5
ME-566	2"	25	0,4

NOTE: PVC Entules (grey/black) on page 38 can be used for sizes over 2" in EMT type conduits.

EMT CONDUIT BENDER

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Aluminum Cast.
- The handle is made of a thick-walled threaded conduit.
- Used to bend EMT conduit to produce a required angle.

MSM Code	Manufacturer's Code	EMT Conduit Size	IMC Conduit Size
ME-591	ACB-050H	1/2"	-
ME-592	ACB-075H	3/4"	1/2"
ME-593	ACB-100H	1"	3/4"

NOTE: These apparatuses can also bend IMC type conduits in the sizes specified in the list.

90° - SHORT ELBOW

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Copper, nickel coating. According to request electro galvanized coating can be made.
- Used for sharp bends in EMT conduits.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
ME-751	KD-01	1/2"	50	1,0
ME-752	KD-02	3/4"	50	1,4

EMT & FLEX. STEEL COND. CONN. ADAP. / SCREW - FERRULE TYPE

PG EAC CE

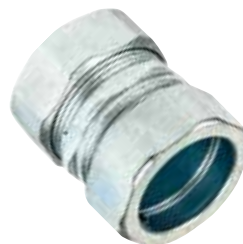


- Certified by GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used for screw/compression type connections of EMT and flexible steel conduits.

MSM Code	Manufacturer's Code	Suitable Flexible Conduit Size	EMT Size	Quantity per Package (pcs)
ME-621	DKJ-050	MN... -16	1/2"	50
ME-622	DKJ-075	MN... -21	3/4"	50
ME-623	DKJ-100	MN... -26	1"	25
ME-624	DKJ-125	MN... -35	1 1/4"	20
ME-625	DKJ-150	MN... -40	1 1/2"	10
ME-626	DKJ-200	MN... -52	2"	10
ME-627	DKJ-250	MN... -63	2 1/2"	25
ME-628	DKJ-300	MN... -78	3"	20
ME-629	DKJ-400	MN... -102	4"	10

EMT & FLEXIBLE STEEL COND. CONN. ADAPTER / COMP. TYPE

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used in compression type connections of EMT and flexible steel conduits.

MSM Code	Suitable Flexible Conduit Size	EMT Size	Quantity per Package (pcs)
ME-671	MN... -16	1/2"	50
ME-672	MN... -21	3/4"	50
ME-673	MN... -26	1"	25
ME-674	MN... -35	1 1/4"	20
ME-675	MN... -40	1 1/2"	10
ME-676	MN... -52	2"	10
ME-677	MN... -63	2 1/2"	25
ME-678	MN... -78	3"	20
ME-679	MN... -102	4"	10

EMT & FLEXIBLE STEEL COND. CONN. ADAPTER / SCREW TYPE

UL PG EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Connects different sizes of flexible conduit together by means of a regulating screw.
- Used in screw type connections of EMT and flexible steel conduits.

MSM Code	Manufacturer's Code	Suitable Flexible Conduit Size	EMT Size	Quantity per Package (pcs)
ME-551	ESC-050	MN... -16	1/2"	50
ME-552	ESC-075	MN... -21	3/4"	40
ME-553	ESC-100	MN... -26	1"	20

EMT / IMC & FLEXIBLE CONDUIT CONNECTING ADAPTER

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- NPT thread featured.
- Used for connecting EMT type or threaded conduits with steel flexible conduits.

MSM Code	Manufacturer's Code	Suitable Flexible Conduit Size	EMT/IMC Size	Quantity per Package (pcs)
ME-411	DPN-050	MN... -16	1/2"	50
ME-412	DPN-075	MN... -21	3/4"	50
ME-413	DPN-100	MN... -26	1"	25
ME-414	DPN-125	MN... -35	1 1/4"	20
ME-415	DPN-150	MN... -40	1 1/2"	10
ME-416	DPN-200	MN... -52	2"	10
ME-417	DPN-250	MN... -63	2 1/2"	5
ME-418	DPN-300	MN... -78	3"	8
ME-419	DPN-400	MN... -102	4"	5

PAINTED EMT & IMC TYPE CONDUITS AND ACCESSORIES



- All types of EMT conduits and accessories can be painted in any RAL color using electrostatic oven paint. (It is recommended to use red color accessories especially in fire alarm systems).

SQUARE JUNCTION BOX EXTENSION RING / 102 x 102 x 38 mm

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used to extend the depth of square boxes in EMT conduit installation.

MSM Code	Manufacturer's Code	Size WxH (mm)	Knockout Number (pcs)
MG-762	53151-1/2" & 3/4"	102x102x38	8x1/2"+4x3/4"

SQUARE JUNCTION BOX COVER / 102 x 102 mm

UL PG EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used as a cover for square boxes in EMT conduit installation.

MSM Code	Manufacturer's Code	Size WxH (mm)	Knockout Number (pcs)
MG-772	52C6	102x102	1x1/2"

SQUARE JUNCTION BOX COVER / 120 x 120 mm

UL PG EAC CE

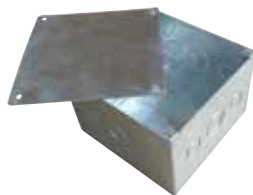


- Certified by UL, GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used as a cover for square box in EMT conduit installation.

MSM Code	Manufacturer's Code	Size WxH (mm)	Knockout Number (pcs)
MG-782	72C6	120x120	1x1/2"

INDOOR TYPE PULL BOX

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- Standard metal sheet thickness 1.0mm.
- There are blind holes on all side surfaces as stated below.
- Used as surface-mounted distribution junction in EMT conduit installation.

MSM Code	Sizes LxWxH (mm)	Total Knockout Number (Øxpcs)	Weight (kg)
MG-791	150x150x100	8(Ø25)+4(Ø35)	0,80
MG-792	200x200x100	16(Ø25)+4(Ø35)	1,30
MG-793	250x250x150	16(Ø25)+4(Ø35)	2,00
MG-794	300x300x150	24(Ø25)+4(Ø35)	2,90

⊛ For boxes of other sizes and characteristics see page 28 and 43.

OCTAGONAL JUNCTION BOX EXTENSION RING / 102 x 102 x 38 mm

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used to extend the depth of octagonal boxes in EMT conduit installation.

MSM Code	Manufacturer's Code	Size WxH (mm)	Knockout Number (pcs)
MG-761	55151-1/2" & 3/4"	102x102x38	2x1/2"+2x3/4"

OCTAGONAL JUNCTION BOX COVER / 102 x 102 mm

UL PG EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used as a cover for octagonal boxes in EMT conduit installation.

MSM Code	Manufacturer's Code	Size WxH (mm)	Knockout Number (pcs)
MG-771	54C6	102x102	1x1/2"

RECTANGULAR JUNCTION BOX COVER / 102 x 54 mm

UL PG EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used as a cover for rectangular boxes in EMT conduit installation.

MSM Code	Manufacturer's Code	Size WxH (mm)	Knockout Number (pcs)
MG-781	58C6	102x54	1x1/2"

METAL PLUG

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- Standard metal sheet thickness 1.0 mm.
- Used to cover the holes opened as backup in the panels.
- Used as a cover of knockout holes in metal enclosures in EMT conduit installation over plaster.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)
MG-751	KOS-050	1/2"	100
MG-752	KOS-075	3/4"	100
MG-753	KOS-100	1"	50
MG-754	KOS-125	1 1/4"	50
MG-755	KOS-150	1 1/2"	25
MG-756	KOS-200	2"	20

OCTAGONAL JUNCTION BOX / 102 x 102 x 38 mm

UL ENE CE



- Certified by UL, GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- The depth and the walls can be extended using an extension ring.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used in EMT / IMC conduits installation over plaster.

(*)

MSM Code	Manufacturer's Code	Side Knockouts Number x Size	Bottom Knockouts Number x Size
MG-751.1	54151-1/2"	4 x 1/2"	5 x 1/2"
MG-751.2	54151-3/4"	4 x 3/4"	3 x 1/2"+2 x 3/4"
MG-751.3	54151-1/2"&3/4"	2 x 1/2"+2 x 3/4"	3 x 1/2"+2 x 3/4"

OCTAGONAL JUNCTION BOX / 102 x 102 x 54 mm

UL ENE CE



- Certified by UL, GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- The depth and the walls can be extended using an extension ring.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used in EMT / IMC conduits installation over plaster.

(*)

MSM Code	Manufacturer's Code	Side Knockouts Number x Size	Bottom Knockouts Number x Size
MG-755.1	54171-1/2"	4 x 1/2"	5 x 1/2"
MG-755.2	54171-3/4"	4 x 3/4"	3 x 1/2"+2 x 3/4"
MG-755.3	54171-1/2"&3/4"	2 x 1/2"+2 x 3/4"	3 x 1/2"+2 x 3/4"
MG-755.4	54171-1"	4 x 1"	3 x 1/2"+2 x 3/4"

SQUARE JUNCTION BOX / 102 x 102 x 38 mm

UL ENE CE



- Certified by UL, GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- The depth and the walls can be extended using an extension ring.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used in EMT / IMC conduits installation over plaster.

(*)

MSM Code	Manufacturer's Code	Side Knockouts Number x Size	Bottom Knockouts Number x Size
MG-752.1	52151-1/2"	12 x 1/2"	5 x 1/2"
MG-752.2	52151-3/4"	8 x 3/4"	5 x 1/2"
MG-752.3	52151-1/2"&3/4"	8 x 1/2"+4 x 3/4"	3 x 1/2"+2 x 3/4"

SQUARE JUNCTION BOX / 102 x 102 x 54 mm

UL ENE CE



- Certified by UL, GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- The depth and the walls can be extended using an extension ring.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used in EMT / IMC conduits installation over plaster.

(*)

MSM Code	Manufacturer's Code	Side Knockouts Number x Size	Bottom Knockouts Number x Size
MG-753.1	52171-1/2"	12 x 1/2"	5 x 1/2"
MG-753.2	52171-3/4"	8 x 3/4"	3 x 1/2"+2 x 3/4"
MG-753.3	52171-1/2"&3/4"	8 x 1/2"+4 x 3/4"	3 x 1/2"+2 x 3/4"
MG-753.4	52171-1"	8 x 1"	3 x 1/2"+2 x 3/4"

RECTANGULAR JUNCTION BOX / 102 x 54 x 48 mm

UL ENE CE



- Certified by UL, GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used in EMT / IMC conduits installation over plaster.
- Can be used for montage of switch - socket that conforms to AMERICAN standard.

(*) (*)

MSM Code	Manufacturer's Code	Side Knockouts Number x Size	Bottom Knockouts Number x Size
MG-756.1	58361-1/2"	8x1/2"	3x1/2"
MG-756.2	58361-3/4"	6x3/4"	2x3/4"
MG-756.3	58361-1/2"&3/4"	4x1/2"+4x3/4"	2x1/2"+1x3/4"

(*) The depth of such junction boxes can be extended with the extension pieces on the page 13.

(*) (*) For switch - socket montage boxes that conforms to EUROPEAN and TURKISH standards, see page 30 and 43.

SQUARE JUNCTION BOX / 120 x 120 x 54 mm

UL ENE CE



- Certified by UL, GOST-R, EAC and CE.
- Made of pre-galvanized metal sheet.
- Standard metal sheet thickness min. 1.0 mm, max. 1.6 mm.
- Used in EMT / IMC conduits installation over plaster.

MSM Code	Manufacturer's Code	Side Knockouts Number x Size	Bottom Knockouts Number x Size
MG-754.1	72171-1/2"	12x1/2"	5x1/2"
MG-754.2	72171-3/4"	8x3/4"	3x1/2"+2x3/4"
MG-754.3	72171-1/2"&3/4"	8x1/2"+4x3/4"	3x1/2"+2x3/4"
MG-754.4	72171-1"	8x1"	3x1/2"+2x3/4"
MG-754.5	72171-1/2&1"	4x1/2"+4x1"	3x1/2"+2x3/4"
MG-754.6	72171-3/4&1"	4x3/4"+4x1"	3x1/2"+2x3/4"

IMC TYPE GALVANIZED STEEL THREADED RIGID CONDUITS / PRE-GALVANIZED

ANSI EAC CE



- Certified by ANSI C80.6, GOST-R, EAC and CE.
- Burr-free electrical installation conduits.
- Made of pre-galvanized steel and bendable.
- $\pm 5\%$ tolerance of all below mentioned physical characteristics.
- Standard product length **3.00 m**, has a coupling on one end.
- Especially used in industrial facilities, business centers, workshops and high-rise buildings.

MSM Code	Manufacturer's Code	Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
IMC-201	IMC-050P	1/2"	17,12 x 20,70	1,79	0,79	2,38	10	23,80
IMC-202	IMC-075P	3/4"	22,30 x 26,10	1,90	1,02	3,06	10	30,60
IMC-203	IMC-100P	1"	28,47 x 32,77	2,15	1,51	4,53	10	45,30
IMC-204	IMC-125P	1-1/4"	37,27 x 41,59	2,16	1,95	5,84	5	29,20
IMC-205	IMC-150P	1-1/2"	43,24 x 47,82	2,29	2,47	7,41	5	37,05
IMC-206	IMC-200P	2"	55,11 x 59,93	2,41	3,12	9,36	3	28,08

IMC TYPE GALVANIZED STEEL THREADED RIGID CONDUITS / HOT-DIP GALVANIZED

UL ANSI EAC CE



- Certified by UL 1242 and ANSI C80.6, GOST-R, EAC and CE.
- Burr-free electrical installation conduits.
- Made of hot-dip galvanized steel.
- $\pm 5\%$ tolerance of all below mentioned physical characteristics.
- Standard product length **3.05 m**, has a coupling on one end.
- See page 21 for sizes of over 4" conduits up to 6".
- Especially used in construction of industrial facilities, workshops, ships etc. Suitable for outdoor and indoor use and wet conditions.

MSM Code	Manufacturer's Code	Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
IMC-201.H	C-I00050	1/2"	16,76 x 20,70	1,97	0,92	2,81	10	28,10
IMC-202.H	C-I00075	3/4"	21,93 x 26,13	2,10	1,25	3,81	10	38,10
IMC-203.H	C-I00100	1"	28,07 x 32,77	2,35	1,77	5,40	5	27,00
IMC-204.H	C-I00125	1 1/4"	36,75 x 41,59	2,42	2,35	7,17	3	21,51
IMC-205.H	C-I00150	1 1/2"	42,74 x 47,82	2,54	2,89	8,80	3	26,40
IMC-206.H	C-I00200	2"	54,59 x 59,93	2,67	3,81	11,62	3	34,86
IMC-207.H	C-I00250	2 1/2"	64,95 x 72,52	3,81	6,57	20,02	2	40,04
IMC-208.H	C-I00300	3"	80,67 x 88,29	3,81	8,08	24,65	2	49,30
IMC-209.H	C-I00400	4"	105,82 x 113,44	3,81	10,42	31,78	1	31,78

MALE TYPE CONNECTOR (HUB)

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Has a flat rubber link-seal.
- Used to connect threaded conduits to junction boxes, panels etc.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-501	H-050	1/2"	50	3,2
MI-502	H-075	3/4"	50	4,0
MI-503	H-100	1"	25	2,6
MI-504	H-125	1 1/4"	50	20,0
MI-505	H-150	1 1/2"	20	10,5
MI-506	H-200	2"	20	13,0
MI-507	H-250	2 1/2"	10	14,0
MI-508	H-300	3"	8	17,0
MI-509	H-400	4"	5	13,0

ERICKSON COUPLING – 3 PIECES (UNION)

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Iron, has 3 parts.
- Electro-galvanized coating.
- Used in connections of surface fixed threaded conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-551	TPU-050	1/2"	120	14,0
MI-552	TPU-075	3/4"	100	17,0
MI-553	TPU-100	1"	75	19,0
MI-554	TPU-125	1 1/4"	50	22,0
MI-555	TPU-150	1 1/2"	25	20,0
MI-556	TPU-200	2"	20	22,0
MI-557	TPU-250	2 1/2"	10	15,0
MI-558	TPU-300	3"	6	12,0
MI-559	TPU-400	4"	4	10,0

THREADED CONDUIT COUPLING

ENEC CE



- Certified by GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Electro-galvanized coating.
- Used to connect threaded conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-511	IC-050	1/2"	500	16,3
MI-512	IC-075	3/4"	250	10,5
MI-513	IC-100	1"	200	11,3
MI-514	IC-125	1 1/4"	150	14,5
MI-515	IC-150	1 1/2"	120	13,3
MI-516	IC-200	2"	80	14,0
MI-517	IC-250	2 1/2"	40	21,0
MI-518	IC-300	3"	20	19,8
MI-519	IC-400	4"	20	17,3

CONDUIT CONNECTING NIPPLE

ENEC CE



- Certified by GOST-R, EAC and CE.
- Made of cast iron.
- Electro-galvanizing coating.
- Used to connect internally threaded conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-641	8380	1/2"	25	0,90
MI-642	8381	3/4"	25	1,40
MI-643	8382	1"	20	1,90
MI-644	8383	1 1/4"	20	2,50
MI-645	8384	1 1/2"	15	2,80
MI-646	8385	2"	15	3,20
MI-647	8386	2 1/2"	10	3,40
MI-648	8387	3"	6	3,10
MI-649	8389	4"	4	4,20

TWO-HOLE CLAMP

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Electro-galvanized coating.
- Used to fix IMC conduit to a mounting surface.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
MI-521	TSP-050R	1/2"	100	1,10
MI-522	TSP-075R	3/4"	100	1,40
MI-523	TSP-100R	1"	50	0,90
MI-524	TSP-125R	1 1/4"	25	0,80
MI-525	TSP-150R	1 1/2"	20	0,85
MI-526	TSP-200R	2"	10	0,50
MI-527	TSP-250R	2 1/2"	100	10,0
MI-528	TSP-300R	3"	100	13,0
MI-529	TSP-400R	4"	50	9,0

ONE-HOLE CLAMP

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Electro-galvanized coating.
- Used to fix IMC conduit to a mounting surface.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
MI-531	OSP-050R	1/2"	200	2,3
MI-532	OSP-075R	3/4"	100	2,2
MI-533	OSP-100R	1"	50	1,7
MI-534	OSP-125R	1 1/4"	50	2,6
MI-535	OSP-150R	1 1/2"	25	1,6
MI-536	OSP-200R	2"	20	2,4
MI-537	OSP-250R	2 1/2"	100	15,5
MI-538	OSP-300R	3"	100	16,5
MI-539	OSP-400R	4"	50	10,0

CONDUIT HANGER

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Electro-galvanized coating.
- Especially used to fix IMC conduit to a mounting surface especially to the ceilings.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
MI-701	CH-050	1/2"	400	12,0
MI-702	CH-075	3/4"	300	10,0
MI-703	CH-100	1"	200	9,0
MI-704	CH-125	1 1/4"	150	8,0
MI-705	CH-150	1 1/2"	100	7,0
MI-706	CH-200	2"	75	6,0
MI-707	CH-250	2 1/2"	50	6,0
MI-708	CH-300	3"	50	6,3
MI-709	CH-400	4"	25	4,0

RAIL TYPE CLAMP

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Electro-galvanized coating.
- Used to fix IMC conduits to C and G type profiles.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
MI-711	SC-050	1/2"	300	15,0
MI-712	SC-075	3/4"	300	17,4
MI-713	SC-100	1"	200	19,2
MI-714	SC-125	1 1/4"	200	17,7
MI-715	SC-150	1 1/2"	150	19,8
MI-716	SC-200	2"	150	22,5
MI-717	SC-250	2 1/2"	100	17,0
MI-718	SC-300	3"	100	20,0
MI-719	SC-400	4"	50	14,8

90° -THREADED ELBOW



- Certified by GOST-R, EAC and CE.
- Made of Galvanized Steel.
- 1/2" ÷ 2" elbows are coated with Pre-Galvanized, 2 1/2" ÷ 4" elbows are coated with Hot-Dip Galvanized.
- Used for 90° turns of IMC conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-541	8320	1/2"	100	20,0
MI-542	8321	3/4"	50	16,0
MI-543	8322	1"	40	22,0
MI-544	8323	1 1/4"	30	26,0
MI-545	8324	1 1/2"	20	26,0
MI-546	8325	2"	8	18,0
MI-547.H	8326	2 1/2"	4	5,5
MI-548.H	8327	3"	2	8,6
MI-549.H	8328	4"	1	15

NOTE: For sizes 1/2" ÷ 2" hot-dip galvanized types of 90° elbows, see page 22.

45° -THREADED ELBOW



- Certified by GOST-R, EAC and CE.
- Made of Galvanized Steel.
- 1/2" ÷ 2" elbows are coated with Pre-Galvanized, 2 1/2" ÷ 4" elbows are coated with Hot-Dip Galvanized.
- Used for 45° turns of IMC conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-751	8330	1/2"	100	20,0
MI-752	8331	3/4"	50	16,0
MI-753	8332	1"	40	22,0
MI-754	8333	1 1/4"	30	26,0
MI-755	8334	1 1/2"	20	26,0
MI-756	8335	2"	8	18,0
MI-757.H	8336	2 1/2"	4	5,5
MI-758.H	8337	3"	2	8,6
MI-759.H	8338	4"	1	15

NOTE: For sizes 1/2" ÷ 2" hot-dip galvanized types of 45° elbows, see page 22.

90° -THREADED PULLING ELBOW



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used in upper controlled, angled turns of IMC conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-761	RTR-050	1/2"	50	3,2
MI-762	RTR-075	3/4"	40	4,2
MI-763	RTR-100	1"	20	4,0

90° - THREADED PULLING ELBOW CONNECTOR



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used in threaded type 90° connections of IMC conduits to an outlet, junction and terminal boxes.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-771	RTB-050	1/2"	50	3,2
MI-772	RTB-075	3/4"	40	4,2
MI-773	RTB-100	1"	20	4,0

THERMOPLASTIC BUSHING

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Thermoplastic.
- Used in endings of threaded conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-561	IPB-050	1/2"	100	0,2
MI-562	IPB-075	3/4"	100	0,3
MI-563	IPB-100	1"	50	0,3
MI-564	IPB-125	1 1/4"	50	0,4
MI-565	IPB-150	1 1/2"	40	0,3
MI-566	IPB-200	2"	40	0,5
MI-567	IPB-250	2 1/2"	20	0,4
MI-568	IPB-300	3"	20	0,6
MI-569	IPB-400	4"	10	0,5

METAL BUSHING / ZAMAK

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Used in endings of threaded conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-571	CB-050	1/2"	100	0,7
MI-572	CB-075	3/4"	100	1,1
MI-573	CB-100	1"	50	0,9
MI-574	CB-125	1 1/4"	50	1,3
MI-575	CB-150	1 1/2"	40	1,5
MI-576	CB-200	2"	40	2,6
MI-577	CB-250	2 1/2"	20	1,6
MI-578	CB-300	3"	20	1,8
MI-579	CB-400	4"	10	1,3

GROUNDING- INSULATED METAL BUSHING / CAST IRON

UL PG EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Iron.
- Electro-galvanized coating.
- Protects the cable by means of PVC insulation.
- Used in ending and grounding of threaded conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-731	Y-MGB050	1/2"	100	2,3
MI-732	Y-MGB075	3/4"	100	2,8
MI-733	Y-MGB100	1"	50	2,1
MI-734	Y-MGB125	1 1/4"	50	3,0
MI-735	Y-MGB150	1 1/2"	40	2,5
MI-736	Y-MGB200	2"	40	4,3
MI-737	Y-MGB250	2 1/2"	20	2,8
MI-738	Y-MGB300	3"	20	3,6
MI-739	Y-MGB400	4"	10	2,1
MI-740	Y-MGB500	5"	10	6,4
MI-741	Y-MGB600	6"	10	8,2

INSULATED METAL BUSHING / ZAMAK

UL PG EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Protects the cable by means of PVC insulation.
- Used in endings of threaded conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-571.I	CB-050I	1/2"	100	0,8
MI-572.I	CB-075I	3/4"	100	1,2
MI-573.I	CB-100I	1"	50	1,0
MI-574.I	CB-125I	1 1/4"	50	1,4
MI-575.I	CB-150I	1 1/2"	40	1,6
MI-576.I	CB-200I	2"	40	2,8
MI-577.I	CB-250I	2 1/2"	20	1,8
MI-578.I	CB-300I	3"	20	1,9
MI-579.I	CB-400I	4"	10	1,4

LOCK NUT (GAS THREAD) / STEEL

UL ENE CEE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Pre-galvanized coating.
- Used to fasten threaded connectors.

MSM Kod	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-581.G	LN-050	1/2"	200	1,10
MI-582.G	LN-075	3/4"	200	1,70
MI-583.G	LN-100	1"	50	1,80
MI-584.G	LN-125	1 1/4"	50	2,10
MI-585.G	LN-150	1 1/2"	50	2,40
MI-586.G	LN-200	2"	25	1,50
MI-587.G	LN-250	2 1/2"	10	1,20
MI-588.G	LN-300	3"	10	1,40
MI-589.G	LN-400	4"	10	2,10

SERRATED STAINLESS WASHER

DIN ENE CEE



- Certified by DIN 6798J, GOST-R, EAC and CE.
- Made of stainless steel (316L).
- Has a serrated surface.
- Used to fasten threaded connectors to vibrating equipment.

MSM Kod	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
TR-M1	CSW-16	M16	250	1,50
TR-M2	CSW-20	M20	200	1,80
TR-M3	CSW-25	M25	100	1,20
TR-M4	CSW-32	M32	100	1,50
TR-M5	CSW-40	M40	100	2,40
TR-M6	CSW-50	M50	50	0,80
TR-M7	CSW-63	M63	50	1,10
TR-M8	CSW-75	M75	50	3,00
TR-M9	CSW-80	M80	50	3,30
TR-M10	CSW-100	M100	50	5,00

LOCK NUT (GAS THREAD) / ZAMAK

ENE CEE



- Certified by GOST-R, EAC and CE.
- Made of Zamak (Zinc die-cast).
- Has a serrated surface.
- Used to fasten threaded connectors.

MSM Kod	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MI-581.T	ZLN-050	1/2"	200	1,10
MI-582.T	ZLN-075	3/4"	200	1,70
MI-583.T	ZLN-100	1"	50	1,80
MI-584.T	ZLN-125	1 1/4"	50	2,10
MI-585.T	ZLN-150	1 1/2"	50	2,40
MI-586.T	ZLN-200	2"	25	1,50

PVC END CAP/ TRANSPARENT (ENDING)

ENE CEE



- Certified by GOST-R, EAC and CE.
- Made of Polyethylene.
- Fits tightly over threaded conduit.
- Used in IMC / RSC type conduits ending systems.

MSM Code	Size	Quantity per Package (pcs)	Package Weight (kg)
MI-591	1/2"	100	0,10
MI-592	3/4"	100	0,20
MI-593	1"	100	0,40
MI-594	1 1/4"	50	0,40
MI-595	1 1/2"	50	0,50
MI-596	2"	25	0,40

STEEL FISH TAPE CASE

ENE CEE



- Certified by GOST-R, EAC and CE.
- Made of Flat Steel.
- Characterized by high resistance.
- Automatic winding system.
- Available in yellow and blue colors.

MSM Code	Manufacturer's Code	Size WxT (mm)	Length (mt.)
MG-741	FWT-15	3,0x1,3	15
MG-742	FWT-30	3,0x1,3	30
MG-743	FWT-45	3,0x1,3	45
MG-744	FWT-60	3,0x1,3	60

IMC CONDUIT BENDER

ENE CEE



- Certified by GOST-R, EAC and CE.
- Made of Cast Iron.
- The handle is made of a thick-walled threaded conduit.
- Used to bend IMC and EMT conduits to produce a required angle.

MSM Code	Manufacturer's Code	IMC Thread Size	EMT Thread Size
MI-601	SCB-050	-	1/2"
MI-602	SCB-075	1/2"	3/4"
MI-603	SCB-100	3/4"	1"
MI-604	SCB-125	1"	1 1/4"

RSC GALVANIZED STEEL THREADED RIGID CONDUITS / HOT-DIP GALVANIZED COATING



- Certified by UL 6, ANSI C80.1, GOST-R, EAC and CE.
- Burr-free electrical installation conduits.
- Hot-dip galvanized coating characterized.
- Produced in the Far East, bendable featured.
- $\pm 5\%$ tolerance of all below mentioned physical characteristics.
- Standard product length **3.00 m**, has a coupling on one end.
- Especially used in construction of heavy industry facilities (steel and concrete plants), refineries, power plants, facilities with explosion-proof installations. Suitable for underground, outdoor and indoor use.

MSM Code	Manufacturer's Code	Thread Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
RSC-301	RGD-050	1/2"	16,02 x 21,30	2,64	1,10	3,42	10	34,20
RSC-302	RGD-075	3/4"	21,26 x 26,70	2,72	1,40	4,35	10	43,50
RSC-303	RGD-100	1"	27,00 x 33,40	3,20	2,20	6,66	5	33,30
RSC-304	RGD-125	1-1/4"	35,44 x 42,20	3,38	3,10	9,32	5	46,60
RSC-305	RGD-150	1-1/2"	41,28 x 48,30	3,51	3,60	10,76	5	53,80
RSC-306	RGD-200	2"	52,88 x 60,30	3,71	4,90	14,63	3	43,89
RSC-307	RGD-250	2-1/2"	63,20 x 73,00	4,90	7,60	22,80	3	68,40
RSC-308	RGD-300	3"	78,48 x 88,90	5,21	9,80	29,43	2	58,86
RSC-309	RGD-400	4"	102,86 x 114,30	5,72	14,10	42,24	2	84,48
RSC-310	RGD-500	5"	128,86 x 141,30	6,22	19,00	57,11	1	57,11
RSC-311	RGD-600	6"	154,78 x 168,30	6,76	24,90	74,79	1	74,79

RSC GALVANIZED STEEL THREADED RIGID CONDUITS / HOT-DIP GALVANIZED



- Certified by UL 6 and ANSI C80.1, GOST-R, EAC and CE.
- Burr-free electrical installation conduits.
- Hot-dip galvanized coating characterized.
- $\pm 5\%$ tolerance of all below mentioned physical characteristics.
- Standard product length **3.05 m**, has a coupling on one end.
- Especially used in construction of heavy industry facilities (steel and concrete plants), refineries, power plants, facilities with explosion-proof installations. Suitable for underground, outdoor and indoor use.

MSM Code	Manufacturer's Code	Thread Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
RSC-301.H	C-R00050	1/2"	16,06 x 21,34	2,64	1,17	3,58	10	35,80
RSC-302.H	C-R00075	3/4"	21,23 x 26,67	2,72	1,56	4,76	8	38,08
RSC-303.H	C-R00100	1"	27,00 x 33,40	3,20	2,28	6,94	5	34,70
RSC-304.H	C-R00125	1 1/4"	35,40 x 42,16	3,38	2,99	9,12	3	27,36
RSC-305.H	C-R00150	1 1/2"	41,24 x 48,26	3,51	3,70	11,29	3	33,87
RSC-306.H	C-R00200	2"	52,91 x 60,33	3,71	4,94	15,06	3	45,18
RSC-307.H	C-R00250	2 1/2"	63,23 x 73,03	4,90	7,84	23,90	2	47,80
RSC-308.H	C-R00300	3"	78,48 x 88,90	5,21	10,15	30,96	2	61,92
RSC-309.H	C-R00400	4"	102,86 x 114,30	5,72	14,46	44,10	1	44,10
RSC-310.H	C-R00500	5"	128,90 x 141,30	6,20	19,54	59,59	1	59,59
RSC-311.H	C-R00600	6"	154,76 x 168,26	6,75	25,96	79,17	1	79,17

90° - THREADED ELBOW

UL PG EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Hot-dip galvanized coating.
- Used for 90° turns in RSC conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MR-541.H	8344	1/2"	50	17,5
MR-542.H	8345	3/4"	50	25,0
MR-543.H	8346	1"	25	22,5
MR-544.H	8347	1 1/4"	20	29,0
MR-545.H	8348	1 1/2"	15	29,3
MR-546.H	8349	2"	10	30,0
MR-547.H	8350	2 1/2"	4	22,0
MR-548.H	8351	3"	2	17,3
MR-549.H	8353	4"	1	15,0
MR-550.H	8354	5"	1	23,5
MR-550.1.H	8355	6"	1	38,0

45° - THREADED ELBOW

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Hot-dip galvanized coating.
- Used for 45° turns in RSC conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MR-551.H	8356	1/2"	50	17,5
MR-552.H	8357	3/4"	50	25,0
MR-553.H	8358	1"	25	22,5
MR-554.H	8359	1 1/4"	20	29,0
MR-555.H	8360	1 1/2"	15	29,3
MR-556.H	8361	2"	10	30,0
MR-557.H	8362	2 1/2"	4	22,0
MR-558.H	8363	3"	2	17,3
MR-559.H	8365	4"	1	15,0
MR-560.H	8366	5"	1	23,5
MR-560.1.H	8367	6"	1	38,0

THREADED CONDUIT COUPLING

UL PG EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Hot-dip galvanized coating.
- Used to connect RSC conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MR-511.H	0324	1/2"	300	15,0
MR-512.H	0325	3/4"	200	17,0
MR-513.H	0326	1"	120	15,6
MR-514.H	0327	1 1/4"	80	14,8
MR-515.H	0328	1 1/2"	80	17,2
MR-516.H	0329	2"	60	20,4
MR-517.H	0330	2 1/2"	18	10,8
MR-518.H	0331	3"	12	15,6
MR-519.H	0333	4"	8	10,4
MR-520.H	0334	5"	6	11,1
MR-521.H	0335	6"	4	11,8

⊛ In the reducers of RB type smaller sizes stand for female thread, bigger sizes stand for male thread. For other sizes see page 37.

GALVANIZED METAL REDUCER

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Galvanized Steel.
- Electro-galvanized coating.
- Used to different gas thread sizes, for reducing or increasing the size.

⊛

MSM Code	Manufacturer's Code	Thread Sizes	Quantity per Package (pcs)	Package Weight (kg)
RB-2	RB-075050	3/4" x 1/2"	500	8,80
RB-3	RB-100050	1" x 1/2"	300	16,35
RB-4	RB-100075	1" x 3/4"	300	10,00
RB-5	RB-125050	1-1/4" x 1/2"	150	17,00
RB-6	RB-125075	1-1/4" x 3/4"	150	14,40
RB-7	RB-125100	1-1/4" x 1"	150	10,00
RB-8	RB-150050	1-1/2" x 1/2"	100	18,90
RB-9	RB-150075	1-1/2" x 3/4"	100	15,30
RB-10	RB-150100	1-1/2" x 1"	100	11,20
RB-11	RB-150125	1-1/2" x 1-1/4"	100	5,00
RB-12	RB-200050	2" x 1/2"	50	18,00
RB-13	RB-200075	2" x 3/4"	50	17,00
RB-14	RB-200100	2" x 1"	50	14,50
RB-15	RB-200125	2" x 1-1/4"	50	10,00
RB-16	RB-200150	2" x 1-1/2"	50	7,20

RSC THREADED PVC COATED STEEL CONDUIT / HOT-DIP GALVANIZED COATING

UL ANSI PG EAC CE



- Certified by UL 6, ANSI C80.1, NEMA, GOST-R, EAC and CE.
- Burr-free electrical installation conduits.
- Coated with **RAL 7016 PVC** over hot-dip galvanized coating.
- Corrosion resistant coating is applied to the threads on the conduit end.
- $\pm 5\%$ tolerance of all below mentioned physical characteristics.
- Standard product length **3.05 m**, has a coupling on one end.
- Especially used in heavy industrial facilities by the sea, refineries, power plants, facilities where ex-proof installations are foreseen and in highly corrosive environments.

MSM Code	Manufacturer's Code	Thread Size	Nominal Diameter (IDxOD - mm)	Nominal Wall Thickness (mm)	Nominal Wall Thick. with PVC (mm)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
PC-RSC-401	CTD-R075	3/4"	21,20 x 28,70	2,71	3,73	4,76	10	35,80
PC-RSC-402	CTD-R100	1"	27,00 x 35,40	3,20	4,21	6,94	8	38,08
PC-RSC-403	CTD-R125	1 1/4"	35,40 x 44,10	3,37	4,39	9,12	5	34,70
PC-RSC-404	CTD-R150	1 1/2"	41,20 x 50,20	3,50	4,52	11,29	3	27,36
PC-RSC-405	CTD-R200	2"	52,90 x 62,30	3,70	4,72	15,06	3	33,87
PC-RSC-406	CTD-R250	2 1/2"	63,20 x 75,00	4,90	5,91	23,90	3	45,18
PC-RSC-407	CTD-R300	3"	78,50 x 90,90	5,20	6,22	30,96	2	47,80
PC-RSC-408	CTD-R400	4"	102,90 x 116,30	5,71	6,73	44,10	1	44,10
PC-RSC-409	CTD-R500	5"	128,90 x 143,30	6,22	7,23	59,59	1	59,59
PC-RSC-410	CTD-R600	6"	154,80 x 170,30	6,75	7,78	79,17	1	79,17

PVC COATED METAL COUPLING

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of galvanized steel.
- Coated with **RAL 7016 PVC** over hot-dip galvanized coating.
- Used to connect PVC coated RSC type conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
PC-MR-511	CTD-RCP075	3/4"	200	17,0
PC-MR-512	CTD-RCP100	1"	120	15,6
PC-MR-513	CTD-RCP125	1 1/4"	80	14,8
PC-MR-514	CTD-RCP150	1 1/2"	80	17,2
PC-MR-515	CTD-RCP200	2"	60	20,4
PC-MR-516	CTD-RCP250	2 1/2"	18	10,8
PC-MR-517	CTD-RCP300	3"	12	15,6
PC-MR-518	CTD-RCP400	4"	8	10,4
PC-MR-519	CTD-RCP500	5"	4	6,0
PC-MR-520	CTD-RCP600	6"	2	3,4

PVC COATED 90° METAL ELBOW

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Made of galvanized steel.
- Coated with **RAL 7016 PVC** over hot-dip galvanized coating.
- Used in 90 degree turns of PVC coated RSC type conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
PC-MR-541	CTD-RLX075	3/4"	50	26,0
PC-MR-542	CTD-RLX100	1"	25	23,0
PC-MR-543	CTD-RLX125	1 1/4"	20	30,0
PC-MR-544	CTD-RLX150	1 1/2"	15	32,0
PC-MR-545	CTD-RLX200	2"	10	33,0
PC-MR-546	CTD-RLX250	2 1/2"	4	23,0
PC-MR-547	CTD-RLX300	3"	2	18,0
PC-MR-548	CTD-RLX400	4"	1	16,0
PC-MR-549	CTD-RLX500	5"	1	19,0
PC-MR-550	CTD-RLX600	6"	1	24,0

Note: Elbows 30°, 45° and 60° degree types are also available.

PVC COATED CONDUIT HANGER

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Coated with **RAL 7016 PVC** over electro galvanized coating.
- Used for fixing PVC coated RSC type conduits to flat surfaces and ceilings.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
PC-MR-561	CTD-HAN075	3/4"	300	11,0
PC-MR-562	CTD-HAN100	1"	200	10,0
PC-MR-563	CTD-HAN125	1 1/4"	150	9,0
PC-MR-564	CTD-HAN150	1 1/2"	100	8,0
PC-MR-565	CTD-HAN200	2"	75	7,0
PC-MR-566	CTD-HAN250	2 1/2"	50	7,0
PC-MR-567	CTD-HAN300	3"	50	9,0
PC-MR-568	CTD-HAN400	4"	25	7,0
PC-MR-569	CTD-HAN500	5"	15	6,0
PC-MR-570	CTD-HAN600	6"	10	5,0

PVC COATED BUSHING WITH GROUNDING/ CAST-IRON

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Coated with **RAL 7016 PVC** over cast iron.
- Used for ending and grounding of PVC coated RSC conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
PC-MR-571	CTD-RBG075	3/4"	100	2,8
PC-MR-572	CTD-RBG100	1"	50	2,1
PC-MR-573	CTD-RBG125	1 1/4"	50	3,0
PC-MR-574	CTD-RBG150	1 1/2"	40	2,5
PC-MR-575	CTD-RBG200	2"	40	4,3
PC-MR-576	CTD-RBG250	2 1/2"	20	2,8
PC-MR-577	CTD-RBG300	3"	20	3,6
PC-MR-578	CTD-RBG400	4"	10	2,1
PC-MR-579	CTD-RBG500	5"	8	2,0
PC-MR-580	CTD-RBG600	6"	4	1,4

PVC COATED TWO HOLE METAL CLAMP

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Coated with **RAL 7016 PVC** over galvanized steel.
- Used for fixing PVC coated RSC type conduits to flat surfaces.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
PC-MR-521	CTD-RS2075	3/4"	100	1,40
PC-MR-522	CTD-RS2100	1"	50	0,90
PC-MR-523	CTD-RS2125	1 1/4"	25	0,80
PC-MR-524	CTD-RS2150	1 1/2"	20	0,85
PC-MR-525	CTD-RS2200	2"	10	0,50
PC-MR-526	CTD-RS2250	2 1/2"	100	10,0
PC-MR-527	CTD-RS2300	3"	100	13,0
PC-MR-528	CTD-RS2400	4"	50	9,0
PC-MR-529	CTD-RS2500	5"	20	5,0
PC-MR-530	CTD-RS2600	6"	10	4,0

PVC COATED ONE HOLE STEEL CLAMP

PG EAC CE



- Certified by GOST-R, EAC and CE.
- Coated with **RAL 7016 PVC** over galvanized steel.
- Used for fixing PVC coated RSC type conduits to flat surfaces.

MSM Code	Manufacturer's Code	Size	Quantity per Package (pcs)	Package Weight (kg)
PC-MR-531	CTD-RS1075	3/4"	100	2,2
PC-MR-532	CTD-RS1100	1"	50	1,7
PC-MR-533	CTD-RS1125	1 1/4"	50	2,6
PC-MR-534	CTD-RS1150	1 1/2"	25	1,6
PC-MR-535	CTD-RS1200	2"	20	2,4
PC-MR-536	CTD-RS1250	2 1/2"	100	15,5
PC-MR-537	CTD-RS1300	3"	100	16,5
PC-MR-538	CTD-RS1400	4"	50	10,0
PC-MR-539	CTD-RS1500	5"	20	6,0
PC-MR-540	CTD-RS1600	6"	10	5,0

CONDULET TYPE "C"

UL EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- **RAL 7042**, electrostatic painted.
- Has a steel sheet cover, sealed.
- Used for cable pulling and conduit direction in EMT/IMC/RSC type conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MLC-201	C-050	1/2"	10	1,2
MLC-202	C-075	3/4"	10	1,6
MLC-203	C-100	1"	6	1,3
MLC-204	C-125	1 1/4"	2	0,9
MLC-205	C-150	1 1/2"	2	1,0
MLC-206	C-200	2"	2	1,2
MLC-207	C-250	2 1/2"	1	2,0
MLC-208	C-300	3"	1	3,0
MLC-209	C-400	4"	1	4,0

CONDULET TYPE "LB"

UL EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- **RAL 7042**, electrostatic painted.
- Has a steel sheet cover, sealed.
- Used for cable pulling and conduit direction change in EMT/IMC/RSC type conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MLB-201	LB-050	1/2"	100	1,3
MLB-202	LB-075	3/4"	60	1,7
MLB-203	LB-100	1"	36	1,4
MLB-204	LB-125	1 1/4"	10	1,0
MLB-205	LB-150	1 1/2"	10	1,1
MLB-206	LB-200	2"	10	1,2
MLB-207	LB-250	2 1/2"	1	2,0
MLB-208	LB-300	3"	1	3,0
MLB-209	LB-400	4"	1	4,0

CONDULET TYPE "LL"

UL EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- **RAL 7042**, electrostatic painted.
- Has a steel sheet cover, sealed.
- Used for cable pulling and conduit direction change in EMT/IMC/RSC type conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MLL-201	LL-050	1/2"	10	1,3
MLL-202	LL-075	3/4"	10	1,7
MLL-203	LL-100	1"	6	1,4
MLL-204	LL-125	1 1/4"	2	1,0
MLL-205	LL-150	1 1/2"	2	1,1
MLL-206	LL-200	2"	2	1,2
MLL-207	LL-250	2 1/2"	1	2,0
MLL-208	LL-300	3"	1	3,0
MLL-209	LL-400	4"	1	4,0

CONDULET TYPE "LR"

UL EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- **RAL 7042**, electrostatic painted.
- Has a steel sheet cover, sealed.
- Used for cable pulling and conduit direction change in EMT/IMC/RSC type conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MLR-201	LR-050	1/2"	10	1,3
MLR-202	LR-075	3/4"	10	1,7
MLR-203	LR-100	1"	6	1,4
MLR-204	LR-125	1 1/4"	2	1,0
MLR-205	LR-150	1 1/2"	2	1,1
MLR-206	LR-200	2"	2	1,2
MLR-207	LR-250	2 1/2"	1	2,0
MLR-208	LR-300	3"	1	3,0
MLR-209	LR-400	4"	1	4,0

CONDULET TYPE "T"

UL EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- **RAL 7042**, electrostatic painted.
- Has a steel sheet cover, sealed.
- Used for cable pulling and conduit direction change in EMT/IMC/RSC type conduits.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MLT-201	T-050	1/2"	10	1,3
MLT-202	T-075	3/4"	10	1,8
MLT-203	T-100	1"	6	1,5
MLT-204	T-125	1 1/4"	2	1,0
MLT-205	T-150	1 1/2"	2	1,2
MLT-206	T-200	2"	2	1,4
MLT-207	T-250	2 1/2"	1	2,2
MLT-208	T-300	3"	1	3,3
MLT-209	T-400	4"	1	4,4

CONDULET TYPE "X"

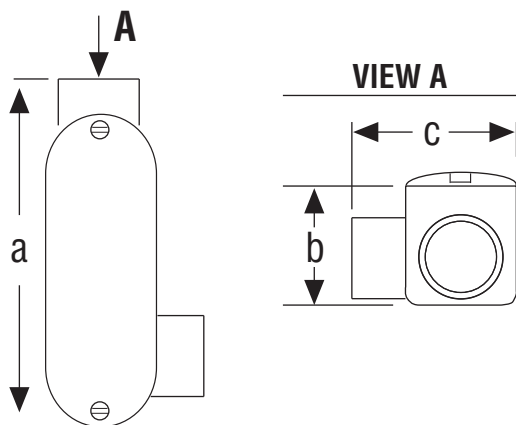
EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Cast Aluminum.
- **RAL 7042**, electrostatic painted.
- Has a steel sheet cover, sealed.
- Used for cable pulling and conduit direction change in EMT/IMC/RSC type conduits.

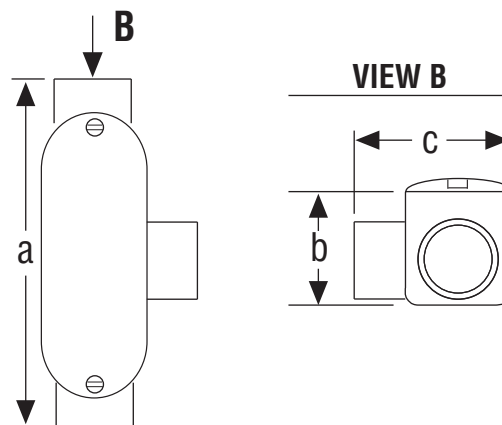
MSM Code	Thread Size	Quantity per Package (pcs)	Package Weight (kg)
MLX-201	1/2"	10	1,5
MLX-202	3/4"	10	2,0
MLX-203	1"	6	1,8
MLX-204	1 1/4"	2	1,3
MLX-205	1 1/2"	2	1,4
MLX-206	2"	2	1,6
MLX-207	2 1/2"	1	2,6
MLX-208	3"	1	3,8
MLX-209	4"	1	5,0

DIMENSIONS (LL, LB, LR TYPES)



Thread Size	a (cm)	b (cm)	c (cm)
1/2"	10,95	3,49	5,16
3/4"	12,93	4,13	5,87
1"	15,00	4,76	6,82
1 1/4"	19,84	6,35	8,89
1 1/2"	19,84	6,35	8,89
2"	25,55	8,57	10,87
2 1/2"	32,54	10,16	14,92
3"	32,54	11,43	14,92
4"	39,68	14,29	19,44

DIMENSIONS (T TYPE)



Thread Size	a (cm)	b (cm)	c (cm)
1/2"	11,90	3,49	5,16
3/4"	13,97	4,13	5,87
1"	16,35	4,76	6,82
1 1/4"	21,27	6,35	8,89
1 1/2"	21,27	6,35	8,89
2"	26,82	8,57	10,87
2 1/2"	34,29	10,16	14,92
3"	34,29	11,43	14,92
4"	41,43	14,29	19,44

NOTE: All above-mentioned dimensions have to be considered with $\pm 5\%$ tolerance.

ROUND TYPE JUNCTION BOX – FIVE OUTLETS

IP66

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- RAL 7042, electrostatic painted.
- Sealed cover also available.
- Comes with a grounding screw.
- Used in installation over plaster for cable connection.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions Ø x D (mm)
MG-859.1	RB50-5	5 x 1/2"	Ø10,6 x 4,2
MG-859.2	RB75-5	5 x 3/4"	Ø10,6 x 4,2

DOUBLE JUNCTION BOX - NINE OUTLETS

IP66

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- RAL 7042, electrostatic painted.
- Sealed cover also available.
- Comes with a grounding screw.
- Used in installation over plaster for cable connection.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-866.1	2G50-9	9 x 1/2"	11,8 x 11,8 x 5,5
MG-866.2	2G75-9	9 x 3/4"	11,8 x 11,8 x 5,5

EXTENTION RING FOR SINGLE JUNCTION BOX

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- Used with one gang outdoor type aluminum boxes, to increase the depth of junction boxes.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-867.1	EXR-1	Deliksiz	7,2 x 11,8 x 3,5
MG-867.2	EXB50-4	4 x 1/2"	7,2 x 11,8 x 3,5
MG-867.3	EXB75-6	6 x 3/4"	7,2 x 11,8 x 3,5

EXTENSION RING FOR DOUBLE JUNCTION BOX

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- Used with two-gang outdoor type aluminum boxes, to increase the depth of junction boxes.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-868.1	EXR-2	Deliksiz	11,8 x 11,8 x 3,5
MG-868.2	2EXB50-6	6 x 1/2"	11,8 x 11,8 x 3,5
MG-868.3	2EXB75-8	8 x 3/4"	11,8 x 11,8 x 3,5

EXTENSION RING FOR ROUND JUNCTION BOX

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- Used with round outdoor type aluminum boxes, to increase the depth of junction boxes.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions Ø x D (mm)
MG-869.1	EXR50-4	4 x 1/2"	Ø10,2 x 4,0
MG-869.2	EXR75-4	4 x 3/4"	Ø10,2 x 4,0

COVER FOR ROUND JUNCTION BOX

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Aluminum Sheet.
- Inner surface made of rubber.
- Used with round outdoor type aluminum boxes.

MSM Code	Manufacturer's Code	Diameter (mm)	Quantity per Package (pcs)
MG-860	RBC-4	Ø10,8	100

COVER FOR JUNCTION BOX

UL ENEC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Aluminum Sheet.
- Inner surface made of rubber.
- Used with outdoor type aluminum boxes.

MSM Code	Manufacturer's Code	Box Type	Size WxH (mm)
MG-870	1BC	Single	7,2 x 11,8
MG-871	2BC	Double	11,8 x 11,8
MG-872	3BC	Triple	16,4 x 11,8

THREADED METAL BLIND PLUG

UL ENEC CE



- Certified by GOST-R, EAC and CE.
- Made of Cast Aluminum.
- Used to cover knockouts of outdoor aluminum boxes.

MSM Code	Manufacturer's Code	Thread Size	Quantity per Package (pcs)
MG-880	PL-050	1/2"	100
MG-881	PL-075	3/4"	50
MG-882	PL-100	1"	50

SINGLE JUNCTION BOX – THREE OUTLETS

IP66

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- RAL 7042, electrostatic painted.
- Sealed cover also available.
- Comes with a grounding screw.
- Used in installation over plaster for cable connection.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-851.1	1G50-3	3 x 1/2"	7,2 x 11,8 x 5,1
MG-851.2	1G75-3	3 x 3/4"	7,2 x 11,8 x 5,1
MG-851.3	1G100-3	3 x 1"	7,2 x 11,8 x 6,6

SINGLE JUNCTION BOX – FOUR OUTLETS

IP66

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- RAL 7042, electrostatic painted.
- Sealed cover also available.
- Comes with a grounding screw.
- Used in installation over plaster for cable connection.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-853.1	1G50-4	4 x 1/2"	7,2 x 11,8 x 5,1
MG-853.2	1G75-4	4 x 3/4"	7,2 x 11,8 x 5,1
MG-853.3	1DG75-4	4 x 3/4"	7,2 x 11,8 x 6,6

SINGLE JUNCTION BOX – FIVE OUTLETS

IP66

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- RAL 7042, electrostatic painted.
- Sealed cover also available.
- Comes with a grounding screw.
- Used in installation over plaster for cable connection.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-855.1	1G50-5X	5 x 1/2"	7,2 x 11,8 x 5,1
MG-855.2	1G75-5X	5 x 3/4"	7,2 x 11,8 x 5,1
MG-855.3	1DG100-5X	5 x 1"	7,2 x 11,8 x 6,6

DOUBLE JUNCTION BOX – SEVEN OUTLETS

IP66

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- RAL 7042, electrostatic painted.
- Sealed cover also available.
- Comes with a grounding screw.
- Used in installation over plaster for cable connection.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-857.1	2G50-7X	7 x 1/2"	11,8 x 11,8 x 5,5
MG-857.2	2G75-7X	7 x 3/4"	11,8 x 11,8 x 5,5
MG-857.3	2DG100-7X	7 x 1"	11,8 x 11,8 x 6,6

DOUBLE JUNCTION BOX - THREE OUTLETS

IP66

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- RAL 7042, electrostatic painted.
- Sealed cover also available.
- Comes with a grounding screw.
- Used in installation over plaster for cable connection.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-861.1	2G50-3	3 x 1/2"	11,8 x 11,8 x 5,5
MG-861.2	2G75-3	3 x 3/4"	11,8 x 11,8 x 5,5
MG-861.3	2G100-3	3 x 1"	11,8 x 11,8 x 5,5

DOUBLE JUNCTION BOX – FOUR OUTLETS

IP66

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- RAL 7042, electrostatic painted.
- Sealed cover also available.
- Comes with a grounding screw.
- Used in installation over plaster for cable connection.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-862.1	2G50-4	4 x 1/2"	11,8 x 11,8 x 5,5
MG-862.2	2G75-4	4 x 3/4"	11,8 x 11,8 x 5,5
MG-862.3	2G100-4	4 x 1"	11,8 x 11,8 x 5,5

DOUBLE JUNCTION BOX – FIVE OUTLETS

IP66

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- RAL 7042, electrostatic painted.
- Sealed cover also available.
- Comes with a grounding screw.
- Used in installation over plaster for cable connection.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-863.1	2G50-5	5 x 1/2"	11,8 x 11,8 x 5,5
MG-863.2	2G75-5	5 x 3/4"	11,8 x 11,8 x 5,5
MG-863.3	2DG100-5	5 x 1"	11,8 x 11,8 x 6,6

TRIPLE JUNCTION BOX – SEVEN OUTLETS

IP66

UL ENEC EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- RAL 7042, electrostatic painted.
- Sealed cover also available.
- Comes with a grounding screw.
- Used in installation over plaster for cable connection.

MSM Code	Manufacturer's Code	Total Knockout Number x Size	Dimensions WxHxD (mm)
MG-864.1	3G50-7	7 x 1/2"	16,2 x 11,4 x 6,6
MG-864.2	3G75-7	7 x 3/4"	16,2 x 11,4 x 6,6
MG-864.3	3G100-7	7 x 1"	16,2 x 11,4 x 6,6

BRITISH STANDARD THREADED GALVANIZED STEEL CONDUIT



- Certified by BS 4568/ BS 729 and Class 4.
- Coating standard is BS EN ISO 1461.
- Burr-free, threaded electrical installation conduit and its inner and outer surfaces are hot dip galvanized.
- Standard product length **3.75 m**. One end fitted with coupling and the other protected by plastic end cap.
- Especially used in industrial facilities, business & shopping centers and social facilities, indoor/ outdoor environments.

MSM Code	Manufacturer's Code	Thread Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)
MB-Ø20	C-BS4175	M20	16,60 x 19,80	1,60	0,72
MB-Ø25	C-BS4110	M25	21,60 x 24,80	1,60	0,90
MB-Ø32	C-BS4112	M32	28,60 x 31,80	1,60	1,18

90° - NORMAL BEND

IP66



- Certified by BS EN 50086- 1,2.
- Coated with hot-dip galvanized over steel.
- Internally threaded and used in the turns of BS type conduits.

MSM Code	Manufacturer's Code	Thread Size
MB-101	B-EL0420	M20
MB-102	B-EL0425	M25
MB-103	B-EL0432	M32

90° - INSPECTION BEND



- Certified by BS EN 50086- 1,2.
- Coated with hot-dip galvanized over malleable iron.
- Internally threaded and used in the turns of BS Type conduits for cable pulling.

MSM Code	Manufacturer's Code	Thread Size
MB-121	B-EL0220	M20
MB-122	B-EL0225	M25
MB-123	B-EL0232	M32

90° - INSPECTION ELBOW



- Certified by BS EN 50086- 1,2.
- Coated with hot-dip galvanized over malleable iron.
- Internally threaded and used for cable pulling in BS type conduit turns.

MSM Code	Manufacturer's Code	Thread Size
MB-111	B-EL0120	M20
MB-112	B-EL0125	M25
MB-113	B-EL0132	M32

INSPECTION TEE



- Certified by BS EN 50086- 1,2.
- Coated with hot-dip galvanized over malleable iron.
- Internally threaded and used for cable pulling & distribution in BS type conduits.

MSM Code	Manufacturer's Code	Thread Size
MB-131	B-EL0320	M20
MB-132	B-EL0325	M25
MB-133	B-EL0332	M32

NORMAL COUPLING



- Certified by BS EN 50086- 1,2.
- Coated with hot-dip galvanized over steel.
- Internally threaded and used in the connections of BS type conduits.

MSM Code	Manufacturer's Code	Thread Size
MB-201	B-CP0120	M20
MB-202	B-CP0125	M25
MB-203	B-CP0132	M32

FLANGED INSULATED COUPLING



- Certified by BS EN 50086- 1,2.
- Coated with hot-dip galvanized over malleable iron.
- Used for ending of BS type conduits.

MSM Code	Manufacturer's Code	Thread Size
MB-211	B-CP0520	M20
MB-212	B-CP0525	M25
MB-213	B-CP0532	M32

NOTE: For montage apparatus to ceiling, wall and profiles of BS type conduits, see page 17.

BAR SADDLE



- Certified by BS EN 50086- 1.2.
- Electro galvanized coated on steel.
- Used for mounting BS type conduits to the surface.

MSM Code	Manufacturer's Code	Size
MB-301	B-SD0420	M20
MB-302	B-SD0425	M25
MB-303	B-SD0432	M32

DISTANCE SADDLE



- Certified by BS EN 50086- 1.2.
- Hot-dip galvanized coated on malleable iron.
- Used for mounting BS type conduits with distance from the surface.

MSM Code	Manufacturer's Code	Size
MB-311	B-SD0320	M20
MB-312	B-SD0325	M25
MB-313	B-SD0332	M32

SHORT NIPPLE



- Certified by BS EN 50086- 1.2.
- Electro galvanized coated on steel.
- Used to connect BS type internally threaded fittings.

MSM Code	Manufacturer's Code	Thread Size
MB-401	B-CP0320	M20
MB-402	B-CP0325	M25
MB-403	B-CP0332	M32

LONG NIPPLE



- Certified by BS EN 50086- 1.2.
- Electro galvanized coated on steel.
- Used to connect BS type internally threaded fittings.

MSM Code	Manufacturer's Code	Thread Size
MB-411	B-CP0420	M20
MB-412	B-CP0425	M25
MB-413	B-CP0432	M32

SHORT TYPE REDUCER



- Certified by BS EN 50086- 1.2.
- Electro galvanized coated on malleable iron.
- Used for changing thread sizes of BS type conduits.

MSM Code	Manufacturer's Code	Thread Size
MB-501	B-RD2025	M20xM25
MB-502	B-RD2032	M20xM32
MB-503	B-RD3225	M25xM32

BLIND PLUG - ENDING



- Certified by BS EN 50086- 1.2.
- Electro galvanized coated on malleable iron.
- Used for the ending of BS type internally threaded fittings (junction box, coupling etc.).

MSM Code	Manufacturer's Code	Thread Size
MB-511	B-PL0120	M20
MB-512	B-PL0125	M25
MB-513	B-PL0132	M32

ONE GANG SWITCH & SOCKET GI BOX (3" x 3")



- Certified by BS 4662.
- Surface mounted type and it has grounding screw.
- Made of pre-galvanized sheet. (1,00mm)
- Electrostatic painting can be made in RAL... type upon request.
- Used in the surface mounted montage of switches and sockets that conforms to EUROPEAN and TURKISH standards.

MSM Code	Dimensions WxHxD (mm)	Side Knockout Pcs/ Size	Bottom Knockout Pcs/ Size
MB-601	72 x 72 x 36	4(Ø20) + 4(Ø25)	2(Ø20) + 1(Ø25)
MB-602	72 x 72 x 48	4(Ø20) + 4(Ø25)	2(Ø20) + 1(Ø25)

TWO GANGS SWITCH & SOCKET GI BOX (3" x 6")



- Certified by BS 4662.
- Surface mounted type and it has grounding screw.
- Made of pre-galvanized sheet. (1,00mm)
- Electrostatic painting can be made in RAL... type upon request.
- Used in the surface mounted montage of switches and sockets that conforms to EUROPEAN and TURKISH standards.

MSM Code	Dimensions WxHxD (mm)	Side Knockout Pcs/ Size	Bottom Knockout Pcs/ Size
MB-611	72 x 132 x 36	4(Ø20) + 4(Ø25)	2(Ø20) + 1(Ø25)
MB-612	72 x 132 x 48	4(Ø20) + 4(Ø25)	2(Ø20) + 1(Ø25)

TERMINAL BOX (A TYPE)



- Certified by BS EN 50086- 1.2.
- Hot-dip galvanized coated on malleable iron.
- Used in interconnect of BS type conduits and cable connection.

MSM Code	Manufacturer's Code	Thread Size	Int. Dimension (mm) (diameter x depth)
MB-701	B-BC0120	M20	Ø60 x 25
MB-702	B-BC0125	M25	Ø60 x 28
MB-703	B-BC0132	M32	Ø80 x 40

THROUGH BOX (C TYPE)



- Certified by BS EN 50086- 1.2.
- Hot-dip galvanized coated on malleable iron.
- Used in interconnect of BS type conduits and cable connection.

MSM Code	Manufacturer's Code	Thread Size	Int. Dimension (mm) (diameter x depth)
MB-711	B-BC0320	M20	Ø60 x 25
MB-712	B-BC0325	M25	Ø60 x 28
MB-713	B-BC0332	M32	Ø80 x 40

ANGLE BOX (L TYPE)



- Certified by BS EN 50086- 1.2.
- Hot-dip galvanized coated on malleable iron.
- Used in interconnect of BS type conduits and cable connection.

MSM Code	Manufacturer's Code	Thread Size	Int. Dimension (mm) (diameter x depth)
MB-721	B-BC0220	M20	Ø60 x 25
MB-722	B-BC0225	M25	Ø60 x 28
MB-723	B-BC0232	M32	Ø80 x 40

TEE BOX (T TYPE)



- Certified by BS EN 50086- 1.2.
- Hot-dip galvanized coated on malleable iron.
- Used in interconnect of BS type conduits and cable connection.

MSM Code	Manufacturer's Code	Thread Size	Int. Dimension (mm) (diameter x depth)
MB-731	B-BC0420	M20	Ø60 x 25
MB-732	B-BC0425	M25	Ø60 x 28
MB-733	B-BC0432	M32	Ø80 x 40

INTERSECTION BOX (X TYPE)



- Certified by BS EN 50086- 1.2.
- Hot-dip galvanized coated on malleable iron.
- Used in interconnect of BS type conduits and cable connection.

MSM Code	Manufacturer's Code	Thread Size	Int. Dimension (mm) (diameter x depth)
MB-741	B-BC0520	M20	Ø60 x 25
MB-742	B-BC0525	M25	Ø60 x 28
MB-743	B-BC0532	M32	Ø80 x 40

CIRCULAR BOX COVER



- Certified by BS EN 50086- 1.2.
- Hot-dip galvanized coated on steel.
- Used to covering BS type junction boxes.

MSM Code	Manufacturer's Code	Size
MB-751	B-CV0320	M20
		M25
MB-752	B-CV0332	M32

CIRCULAR BOX EXTANSION RING



- Certified by BS EN 50086- 1.2.
- Electro galvanized coated on steel.
- Used to increase the height of BS type junction boxes.

MSM Code	Manufacturer's Code	Depth (mm)
MB-761	B-RN0120	20
MB-762	B-RN0125	25
MB-763	B-RN0132	32

CIRCULAR BOX RUBBER GASKET



- Certified by BS EN 50086- 1.2.
- Made of rubber material.
- Used for the cover sealing of BS type junction boxes.

MSM Code	Manufacturer's Code	Size
MB-771	B-RG0120	M20
		M25
MB-772	B-RG0132	M32

BRITISH STANDARD THREADED GALVANIZED STEEL CONDUIT/ HOT-DIP GALVANIZED



- Certified by BS 31 and Class 4.
- Coating and thread standard is BS 31.
- Burr-free, **gas** threaded electrical installation conduit and its inner and outer surfaces are hot dip galvanized.
- Standard product length **3.00 m**. One end fitted with coupling and the other protected by plastic end cap.
- Especially used in industrial facilities, business & shopping centers and social facilities, indoor/ outdoor environments.

MSM Code	Manufacturer's Code	Thread Size	Nominal Diameter (ID x OD - mm)	Nominal Wall Thickness (mm)	Weight (m/kg)
MB-Ø20.G1	C-BS 3175	3/4"	16,69 x 19,05	1,63	0,71
MB-Ø25.G2	C-BS 3110	1"	22,14 x 25,40	1,63	0,97
MB-Ø32.G3	C-BS 3111	1 1/4"	28,49 x 31,75	1,63	1,23

90° - NORMAL BEND

IP66



- Certified by BS EN 50086- 1,2.
- Coated with hot-dip galvanized over steel.
- Internally threaded and used in the turns of BS 31 type conduits.

MSM Code	Manufacturer's Code	Thread Size
MB-101.G1	B-EL0475	3/4"
MB-102.G2	B-EL0410	1"
MB-103.G3	B-EL0412	1 1/4"

NORMAL COUPLING



- Certified by BS EN 50086- 1,2.
- Coated with hot-dip galvanized over steel.
- Internally threaded and used in the connections of BS 31 type conduits.

MSM Code	Manufacturer's Code	Thread Size
MB-201.G1	B-CP0175	3/4"
MB-202.G2	B-CP0110	1"
MB-203.G3	B-CP0112	1 1/4"

90° - INSPECTION BEND



- Certified by BS EN 50086- 1,2.
- Coated with hot-dip galvanized over malleable iron.
- Internally threaded and used in the turns of BS 31 type conduits for cable pulling.

MSM Code	Manufacturer's Code	Thread Size
MB-121.G1	B-EL0275	3/4"
MB-122.G2	B-EL0210	1"

INSPECTION TEE



- Certified by BS EN 50086- 1,2.
- Coated with hot-dip galvanized over malleable iron.
- Internally threaded and used for cable pulling & distribution in BS 31 type conduits.

MSM Code	Manufacturer's Code	Thread Size
MB-131.G1	B-EL0375	3/4"
MB-132.G2	B-EL0310	1"

THROUGH BOX (C TYPE)



- Hot-dip galvanized coated on malleable iron.
- Used in interconnect of BS 31 type conduits and cable connection.

MSM Code	Manufacturer's Code	Thread Size	Int. Dimension (mm) (diameter x depth)
MB-301.G1	B-BC0375	3/4"	Ø60 x 25
MB-302.G2	B-BC0310	1"	Ø60 x 28
MB-303.G3	B-BC0312	1 1/4"	Ø80 x 40

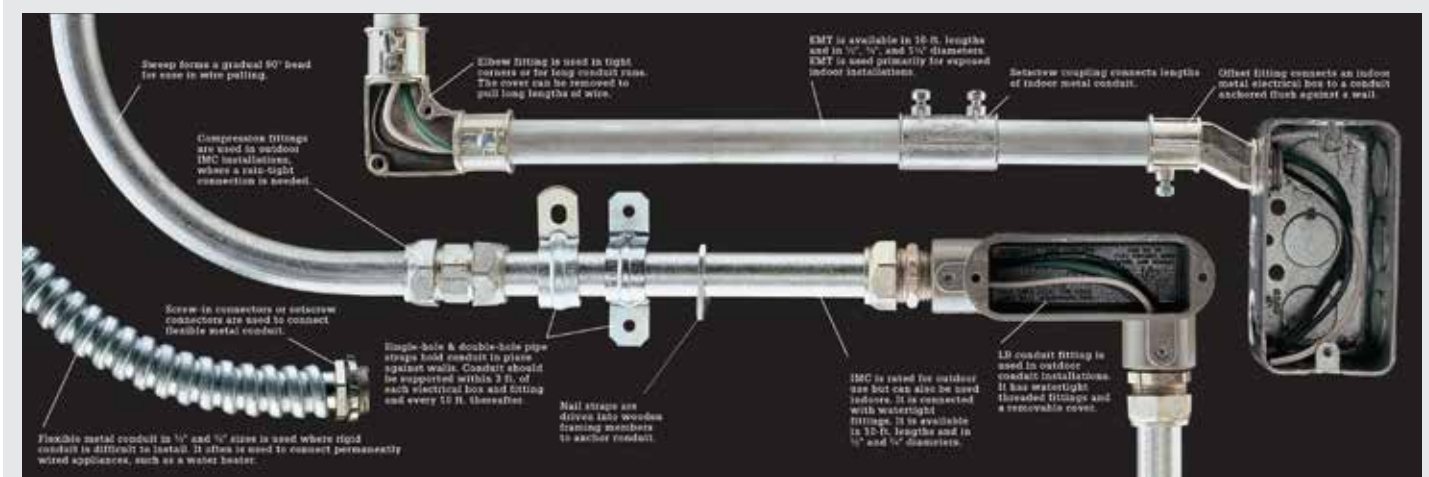
INTERSECTION BOX (X TYPE)



- Hot-dip galvanized coated on malleable iron.
- Used in interconnect of BS 31 type conduits and cable connection.

MSM Code	Manufacturer's Code	Thread Size	Int. Dimension (mm) (diameter x depth)
MB-311.G1	B-BC0575	3/4"	Ø60 x 25
MB-312.G2	B-BC0510	1"	Ø60 x 28
MB-313.G3	B-BC0512	1 1/4"	Ø80 x 40

NOTE: See page 31 for gasket, cover and extension elements of C and X type junction boxes.
See pages 17 and 30 for BS 31 type conduit mounting apparatus to ceiling, wall and profile.



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GALVANIZED THREADED CONDUITS WITH A COUPLING

MIDDLE SERIES

TSE CE ENE



- Certified by TSE, GOST-R, EAC and CE.
- Manufactured in accordance with standard EN 10255.
- These conduits are hot-dip galvanized coated.
- Galvanized coating meets the requirements of standard EN 10240.
- The standard manufactured type has light burrs inside.
- $\pm 5\%$ tolerance of all below-mentioned physical characteristics.
- Standard length **6.00 m**, has a coupling on one end.
- Especially used in construction of heavy industry facilities (steel and concrete plants, etc.), oil refineries, power stations, explosion-proof enclosures. Suitable for underground, indoor and outdoor use.

MSM Code	Thread Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
GB-G1	1/2"	16,1 x 21,3	2,65	1,23	7,38	10	73,80
GB-G2	3/4"	21,7 x 26,9	2,65	1,59	9,54	10	95,40
GB-G3	1"	27,3 x 33,7	3,25	2,46	14,76	5	73,80
GB-G4	1 1/4"	36,0 x 42,4	3,25	3,17	19,02	5	95,10
GB-G5	1 1/2"	41,9 x 48,3	3,25	3,65	21,90	5	87,60
GB-G6	2"	53,1 x 60,3	3,65	5,17	31,02	3	93,00
GB-G7	2 1/2"	68,9 x 76,1	3,65	6,63	39,78	3	79,56
GB-G8	3"	80,9 x 88,9	4,05	8,64	51,84	1	51,84
GB-G9	4"	105,3 x 114,3	4,50	12,40	74,40	1	74,40
GB-G10	5"	129,7 x 139,7	4,85	16,70	100,20	1	100,20
GB-G11	6"	155,4 x 165,1	4,85	19,80	118,80	1	118,80

GALVANIZED THREADED BURR-FREE CONDUITS WITH A COUPLING

MIDDLE SERIES

TSE CE ENE



- Certified by TSE, GOST-R, EAC and CE.
- Manufactured in accordance with standard EN 10255.
- These conduits are hot-dip galvanized coated.
- Galvanized coating meets the requirements of standard EN 10240.
- Burr-free inner surface minimizes the risks of scratching the cable while wire pulling.
- $\pm 5\%$ tolerance of all below-mentioned physical characteristics.
- Standard length **6.00 m**, has a coupling on one end.
- Due to production process specifics the minimum order is 5 tons (of one size).
- Especially used in construction of non-residential and industrial facilities, workplaces, ships etc. Suitable for indoor and outdoor use and in wet conditions.

MSM Code	Thread Size	Nominal Diameter (ID x OD, mm)	Nominal Wall Thickness (mm)	Weight (m/kg)	Weight (length/kg)	Quantity per Bundle (pcs)	Bundle Weight (bundle/kg)
GTC-G1	1/2"	16,1 x 21,3	2,65	1,23	7,38	10	73,80
GTC-G2	3/4"	21,7 x 26,9	2,65	1,59	9,54	10	95,40
GTC-G3	1"	27,3 x 33,7	3,25	2,46	14,76	5	73,80
GTC-G4	1 1/4"	36,0 x 42,4	3,25	3,17	19,02	5	95,10
GTC-G5	1 1/2"	41,9 x 48,3	3,25	3,65	21,90	4	87,60
GTC-G6	2"	53,1 x 60,3	3,65	5,17	31,02	3	93,00
GTC-G7	2 1/2"	68,9 x 76,1	3,65	6,63	39,78	2	79,56
GTC-G8	3"	80,9 x 88,9	4,05	8,64	51,84	1	51,84
GTC-G9	4"	105,3 x 114,3	4,50	12,4	74,40	1	74,40
GTC-G10	5"	129,7 x 139,7	4,85	16,7	100,20	1	100,20
GTC-G11	6"	155,4 x 165,1	4,85	19,8	118,80	1	118,80

45° GALVANIZED ELBOW

EAC EEC



MSM Code	Thread Size	Material
GK-G1	1/2"	Steel+Hot-dip Galv.Coat.
GK-G2	3/4"	Steel+Hot-dip Galv.Coat.
GK-G3	1"	Steel+Hot-dip Galv.Coat.
GK-G4	1 1/4"	Steel+Hot-dip Galv.Coat.
GK-G5	1 1/2"	Steel+Hot-dip Galv.Coat.
GK-G6	2"	Steel+Hot-dip Galv.Coat.
GK-G7	2 1/2"	Steel+Hot-dip Galv.Coat.
GK-G8	3"	Steel+Hot-dip Galv.Coat.
GK-G9	4"	Steel+Hot-dip Galv.Coat.
GK-G10	5"	Steel+Hot-dip Galv.Coat.
GK-G11	6"	Steel+Hot-dip Galv.Coat.

90° GALVANIZED ELBOW

EAC EEC



MSM Code	Thread Size	Material
GD-G1	1/2"	Steel+Hot-dip Galv.Coat.
GD-G2	3/4"	Steel+Hot-dip Galv.Coat.
GD-G3	1"	Steel+Hot-dip Galv.Coat.
GD-G4	1 1/4"	Steel+Hot-dip Galv.Coat.
GD-G5	1 1/2"	Steel+Hot-dip Galv.Coat.
GD-G6	2"	Steel+Hot-dip Galv.Coat.
GD-G7	2 1/2"	Steel+Hot-dip Galv.Coat.
GD-G8	3"	Steel+Hot-dip Galv.Coat.
GD-G9	4"	Steel+Hot-dip Galv.Coat.
GD-G10	5"	Steel+Hot-dip Galv.Coat.
GD-G11	6"	Steel+Hot-dip Galv.Coat.

COUPLING (FEMALE TO FEMALE)

EAC EEC



MSM Code	Thread Size	Material
MD-G1	1/2"	Steel+Hot-dip Galv.Coat.
MD-G2	3/4"	Steel+Hot-dip Galv.Coat.
MD-G3	1"	Steel+Hot-dip Galv.Coat.
MD-G4	1 1/4"	Steel+Hot-dip Galv.Coat.
MD-G5	1 1/2"	Steel+Hot-dip Galv.Coat.
MD-G6	2"	Steel+Hot-dip Galv.Coat.
MD-G7	2 1/2"	Steel+Hot-dip Galv.Coat.
MD-G8	3"	Steel+Hot-dip Galv.Coat.
MD-G9	4"	Steel+Hot-dip Galv.Coat.
MD-G10	5"	Steel+Hot-dip Galv.Coat.
MD-G11	6"	Steel+Hot-dip Galv.Coat.

NIPPLE (MALE TO MALE)

EAC EEC



MSM Code	Thread Size	Material
NE-G1	1/2"	Metal + Electro-Galv.Coat.
NE-G2	3/4"	Metal + Electro-Galv.Coat.
NE-G3	1"	Metal + Electro-Galv.Coat.
NE-G4	1 1/4"	Metal + Electro-Galv.Coat.
NE-G5	1 1/2"	Metal + Electro-Galv.Coat.
NE-G6	2"	Metal + Electro-Galv.Coat.
NE-G7	2 1/2"	Metal + Electro-Galv.Coat.
NE-G8	3"	Metal + Electro-Galv.Coat.
NE-G9	4"	Metal + Electro-Galv.Coat.
NE-G10	5"	Metal + Electro-Galv.Coat.
NE-G11	6"	Metal + Electro-Galv.Coat.

METAL ENTUL / BRACELET TYPE (ENDING)

EAC EEC



MSM Code	Thread Size	Material
SBS-G1	1/2"	Metal + Electro-Galv.Coat.
SBS-G2	3/4"	Metal + Electro-Galv.Coat.
SBS-G3	1"	Metal + Electro-Galv.Coat.
SBS-G4	1 1/4"	Metal + Electro-Galv.Coat.
SBS-G5	1 1/2"	Metal + Electro-Galv.Coat.
SBS-G6	2"	Metal + Electro-Galv.Coat.
SBS-G7	2 1/2"	Metal + Electro-Galv.Coat.
SBS-G8	3"	Metal + Electro-Galv.Coat.
SBS-G9	4"	Metal + Electro-Galv.Coat.
SBS-G10	5"	Metal + Electro-Galv.Coat.
SBS-G11	6"	Metal + Electro-Galv.Coat.

BLIND PLUG (GAS)

EAC EEC



MSM Code	Thread Size	Material
MT-G1	1/2"	Metal + Electro-Galv.Coat.
MT-G2	3/4"	Metal + Electro-Galv.Coat.
MT-G3	1"	Metal + Electro-Galv.Coat.
MT-G4	1 1/4"	Metal + Electro-Galv.Coat.
MT-G5	1 1/2"	Metal + Electro-Galv.Coat.
MT-G6	2"	Metal + Electro-Galv.Coat.
MT-G7	2 1/2"	Metal + Electro-Galv.Coat.
MT-G8	3"	Metal + Electro-Galv.Coat.
MT-G9	4"	Metal + Electro-Galv.Coat.
MT-G10	5"	Metal + Electro-Galv.Coat.
MT-G11	6"	Metal + Electro-Galv.Coat.

NOTE: Pg, Metric and NPT thread types are also available.

THREADED CONDUIT CONNECTOR-HUB

EAC EEC



MSM Code	Thread Size	Material
HR-G1	1/2"	Metal + Electro-Galv.Coat.
HR-G2	3/4"	Metal + Electro-Galv.Coat.
HR-G3	1"	Metal + Electro-Galv.Coat.
HR-G4	1 1/4"	Metal + Electro-Galv.Coat.
HR-G5	1 1/2"	Metal + Electro-Galv.Coat.
HR-G6	2"	Metal + Electro-Galv.Coat.
HR-G7	2 1/2"	Metal + Electro-Galv.Coat.
HR-G8	3"	Metal + Electro-Galv.Coat.
HR-G9	4"	Metal + Electro-Galv.Coat.
HR-G10	5"	Metal + Electro-Galv.Coat.
HR-G11	6"	Metal + Electro-Galv.Coat.

PVC INSULATED GROUNDING METAL BUSHING

EAC EEC



MSM Code	Thread Size	Material
TB-G1	1/2"	Cast Iron+El.-Galv.Coat.
TB-G2	3/4"	Cast Iron+El.-Galv.Coat.
TB-G3	1"	Cast Iron+El.-Galv.Coat.
TB-G4	1 1/4"	Cast Iron+El.-Galv.Coat.
TB-G5	1 1/2"	Cast Iron+El.-Galv.Coat.
TB-G6	2"	Cast Iron+El.-Galv.Coat.
TB-G7	2 1/2"	Cast Iron+El.-Galv.Coat.
TB-G8	3"	Cast Iron+El.-Galv.Coat.
TB-G9	4"	Cast Iron+El.-Galv.Coat.
TB-G10	5"	Cast Iron+El.-Galv.Coat.
TB-G11	6"	Cast Iron+El.-Galv.Coat.

* These items can also be produced in brass with a nickel coating.

EMT - FLEXIBLE STEEL CONDUIT CONN. ADAPTOR (WITH SCREW)

EHC CE



MSM Code	Thread Size	Material
ESA-G1	1/2"	Brass + Nickel Coat.
ESA-G2	3/4"	Brass + Nickel Coat.
ESA-G3	1"	Brass + Nickel Coat.
ESA-G4	1 1/4"	Brass + Nickel Coat.
ESA-G5	1 1/2"	Brass + Nickel Coat.
ESA-G6	2"	Brass + Nickel Coat.
ESA-G7	2 1/2"	Brass + Nickel Coat.
ESA-G8	3"	Brass + Nickel Coat.
ESA-G9	4"	Brass + Nickel Coat.

EMT - FLEXIBLE STEEL CONDUIT CONN. ADAPTOR (COMP. TYPE)

EHC CE



MSM Code	Thread Size	Material
ESE-G1	1/2"	Brass + Nickel Coat.
ESE-G2	3/4"	Brass + Nickel Coat.
ESE-G3	1"	Brass + Nickel Coat.
ESE-G4	1 1/4"	Brass + Nickel Coat.
ESE-G5	1 1/2"	Brass + Nickel Coat.
ESE-G6	2"	Brass + Nickel Coat.
ESE-G7	2 1/2"	Brass + Nickel Coat.
ESE-G8	3"	Brass + Nickel Coat.
ESE-G9	4"	Brass + Nickel Coat.

REDUCER NIPPLE (MALE TO MALE)

EHC CE



MSM Code	Thread Size (MxM)	Material
NR-G3.G4	1/2"-3/4"	Brass + Nickel Coat.
NR-G4.G5	3/4"-1"	Brass + Nickel Coat.
NR-G5.G6	1"-1 1/4"	Brass + Nickel Coat.
NR-G6.G7	1 1/4"-1 1/2"	Brass + Nickel Coat.
NR-G7.G8	1 1/2"-2"	Brass + Nickel Coat.
NR-G4.G3	3/4"-1/2"	Brass + Nickel Coat.
NR-G4.G8	3/4"-2"	Brass + Nickel Coat.
NR-G5.G3	1"-1/2"	Brass + Nickel Coat.
NR-G7.G4	1 1/2"-3/4"	Brass + Nickel Coat.
NR-G8.G5	2"-1"	Brass + Nickel Coat.

SHORT TYPE REDUCER (MALE TO FEMALE)

EHC CE



MSM Code	Thread Size (MxF)	Material
KR-G3.G2	1/2" - 3/8"	Brass + Nickel Coat.
KR-G4.G3	3/4" - 1/2"	Brass + Nickel Coat.
KR-G5.G3	1" - 1/2"	Brass + Nickel Coat.
KR-G5.G4	1" - 3/4"	Brass + Nickel Coat.
KR-G6.G3	1 1/4" - 1/2"	Brass + Nickel Coat.
KR-G6.G4	1 1/4" - 3/4"	Brass + Nickel Coat.
KR-G6.G5	1 1/4" - 1"	Brass + Nickel Coat.
KR-G7.G3	1 1/2" - 1/2"	Brass + Nickel Coat.
KR-G7.G4	1 1/2" - 3/4"	Brass + Nickel Coat.
KR-G7.G5	1 1/2" - 1"	Brass + Nickel Coat.
KR-G7.G6	1 1/2" - 1 1/4"	Brass + Nickel Coat.
KR-G8.G3	2" - 1/2"	Brass + Nickel Coat.
KR-G8.G4	2" - 3/4"	Brass + Nickel Coat.
KR-G8.G5	2" - 1"	Brass + Nickel Coat.
KR-G8.G6	2" - 1 1/4"	Brass + Nickel Coat.
KR-G8.G7	2" - 1 1/2"	Brass + Nickel Coat.
KR-G9.G8	2 1/2" - 2"	Brass + Nickel Coat.
KR-G10.G9	3" - 2 1/2"	Brass + Nickel Coat.
KR-G11.G10	4" - 3"	Brass + Nickel Coat.

SHORT TYPE REDUCER BUSHING

EHC CE



MSM Code	Thread Size (MxF)	Material
KBR-G3.G2	1/2"-3/8"	Brass + Nickel Coat.
KBR-G4.G3	3/4"-1/2"	Brass + Nickel Coat.
KBR-G5.G4	1"-3/4"	Brass + Nickel Coat.
KBR-G6.G5	1 1/4"-1"	Brass + Nickel Coat.
KBR-G7.G6	1 1/2"-1 1/4"	Brass + Nickel Coat.
KBR-G8.G7	2"-1 1/2"	Brass + Nickel Coat.
KBR-G9.G8	2 1/2"-2"	Brass + Nickel Coat.
KBR-G10.G9	3"-2 1/2"	Brass + Nickel Coat.
KBR-G11.G10	4"-3"	Brass + Nickel Coat.

THREADED CONDUIT - FLEXIBLE STEEL CON. CONN. ADAPTOR

EHC CE



MSM Code	Thread Size	Material
DSA-G1	1/2"	Brass + Nickel Coat.
DSA-G2	3/4"	Brass + Nickel Coat.
DSA-G3	1"	Brass + Nickel Coat.
DSA-G4	1 1/4"	Brass + Nickel Coat.
DSA-G5	1 1/2"	Brass + Nickel Coat.
DSA-G6	2"	Brass + Nickel Coat.
DSA-G7	2 1/2"	Brass + Nickel Coat.
DSA-G8	3"	Brass + Nickel Coat.
DSA-G9	4"	Brass + Nickel Coat.

COUPLING REDUCER (FEMALE TO FEMALE)

EHC CE



MSM Code	Thread Size (FxF)	Material
MR-G3.G4	1/2" - 3/4"	Brass + Nickel Coat.
MR-G4.G5	3/4" - 1"	Brass + Nickel Coat.
MR-G5.G6	1" - 1 1/4"	Brass + Nickel Coat.
MR-G6.G7	1 1/4" - 1 1/2"	Brass + Nickel Coat.
MR-G7.G8	1 1/2" - 2"	Brass + Nickel Coat.
MR-G4.G3	3/4"-1/2"	Brass + Nickel Coat.
MR-G4.G8	3/4"-2"	Brass + Nickel Coat.
MR-G5.G3	1"-1/2"	Brass + Nickel Coat.
MR-G7.G4	1 1/2"-3/4"	Brass + Nickel Coat.
MR-G8.G5	2"-1"	Brass + Nickel Coat.

NORMAL REDUCER (MALE TO FEMALE)

EHC CE



MSM Code	Thread Size (MxF)	Material
EDR-P4.M4	Pg13,5-M25	Brass + Nickel Coat.
EDR-P5.P6	Pg16-Pg21	Brass + Nickel Coat.
EDR-G3.M4	1/2"-M25	Brass + Nickel Coat.
EDR-M3.P3	M20-Pg11	Brass + Nickel Coat.
EDR-M3.M4	M20-M25	Brass + Nickel Coat.
EDR-G4.P7	3/4"-Pg29	Brass + Nickel Coat.
EDR-G4.G5	3/4"-1"	Brass + Nickel Coat.
EDR-M4.M5	M25-M32	Brass + Nickel Coat.
EDR-M5.G5	M32-1"	Brass + Nickel Coat.
EDR-G5.M4	1"-M25	Brass + Nickel Coat.
EDR-G6.G5	1 1/4"-1"	Brass + Nickel Coat.
EDR-G7.G5	1 1/2"-1"	Brass + Nickel Coat.
EDR-G8.G7	2"-1 1/2"	Brass + Nickel Coat.
EDR-G9.G8	2 1/2"-2"	Brass + Nickel Coat.
EDR-G10.G9	3"-2 1/2"	Brass + Nickel Coat.

■ All the items on this page are also available in metal with electro-galvanized coating and can be produced in any other required size and with any other required thread type.

■ In the short reducer description smaller sizes (KR-KBR types) stand for female thread, bigger sizes stand for male thread.

LOCK NUT (GAS-NPT THREAD)

EAC CE



Gas Kod	Thread Size	NPT Kod	Thread Size
KS-G1	1/2"	KS-N1	1/2" NPT
KS-G2	3/4"	KS-N2	3/4" NPT
KS-G3	1"	KS-N3	1" NPT
KS-G4	1 1/4"	KS-N4	1 1/4" NPT
KS-G5	1 1/2"	KS-N5	1 1/2" NPT
KS-G6	2"	KS-N6	2" NPT
KS-G7	2 1/2"	KS-N7	2 1/2" NPT
KS-G8	3"	KS-N8	3" NPT
KS-G9	4"	KS-N9	4" NPT
KS-G10	5"	KS-N10	5" NPT

LOCK NUT (METRIC-Pg THREAD)

EAC CE



Metrik Kod	Thread Size	Pg Kod	Thread Size
KS-M1	M12x1,5	KS-P1	Pg 7
KS-M2	M16x1,5	KS-P2	Pg 9
KS-M3	M20x1,5	KS-P3	Pg 11
KS-M4	M25x1,5	KS-P4	Pg 13,5
KS-M5	M32x1,5	KS-P5	Pg 16
KS-M6	M40x1,5	KS-P6	Pg 21
KS-M7	M50x1,5	KS-P7	Pg 29
KS-M8	M63x1,5	KS-P8	Pg 36
KS-M9	M75x1,5	KS-P9	Pg 42
KS-M10	M80x1,5	KS-P10	Pg 48

NOTE: These materials can be manufactured as electro-galvanized on metal and nickel plated on brass.

PVC FERRULE (GRAY/BLACK)

EAC CE



MSM Code	Size	Material
PE-G1	1/2"	PVC
PE-G2	3/4"	PVC
PE-G3	1"	PVC
PE-G4	1 1/4"	PVC
PE-G5	1 1/2"	PVC
PE-G6	2"	PVC
PE-G7	2 1/2"	PVC
PE-G8	3"	PVC
PE-G9	4"	PVC
PE-G10	5"	PVC

PLASTIC COVER (ENDING)

EAC CE



MSM Code	Size	Material
PMT-G1	1/2"	Polyethylene
PMT-G2	3/4"	Polyethylene
PMT-G3	1"	Polyethylene
PMT-G4	1 1/4"	Polyethylene
PMT-G5	1 1/2"	Polyethylene
PMT-G6	2"	Polyethylene
PMT-G7	2 1/2"	Polyethylene
PMT-G8	3"	Polyethylene
PMT-G9	4"	Polyethylene
PMT-G10	5"	Polyethylene

NOTE: It can produce in black and gray colors.

"P" TYPE CLAMP

EAC CE



MSM Code	Suitable Conduit Size	Material
PK-G2	3/8"	Metal+PVC Coat.
PK-G3	1/2"	Metal+PVC Coat.
PK-G4	3/4"	Metal+PVC Coat.
PK-G5	1"	Metal+PVC Coat.
PK-G6	1 1/4"	Metal+PVC Coat.
PK-G7	1 1/2"	Metal+PVC Coat.
PK-G8	2"	Metal+PVC Coat.

PROFILE HANGING VISE

EAC CE



MSM Code	Thread Size	Material
PAM-M6	M6	Metal+Electro-Galv.Coat.
PAM-M8	M8	Metal+Electro-Galv.Coat.
PAM-M10	M10	Metal+Electro-Galv.Coat.
PAM-M12	M12	Metal+Electro-Galv.Coat.
PAM-M14	M14	Metal+Electro-Galv.Coat.
PAM-M16	M16	Metal+Electro-Galv.Coat.
PAM-M20	M20	Metal+Electro-Galv.Coat.

"G" PROFILE WITH HOLES- PVC PROFILE PLUG

EAC CE



MSM Code	Size WxHxT (mm)	Material
GP-01.P	41x21x2,0	Metal+Pre-Galv.Coated
GP-02.P	41x41x2,0	Metal+Pre-Galv.Coated
GP-01.E	41x21x2,0	Metal+Electro-Galv.Coated
GP-02.E	41x41x2,0	Metal+Electro-Galv.Coated
GP-01.H	41x21x2,0	Metal+Hot-Dip Galv.Coated
GP-02.H	41x41x2,0	Metal+Hot-Dip Galv.Coated
GP-01.S	41x21x2,0	Stainless Steel
GP-02.S	41x41x2,0	Stainless Steel
PT-01	41x41	PVC
PT-02	41x21	PVC

NOTE:

Standard lengths are 3,0 meters. It can be produced in special lengths. There are also productions without holes and wall thicknesses of 1,5-2,5 mm.

SPRING METAL NUT

EAC CE



MSM Code	Thread Size	Material
YS-01	M6	Metal+ Electro-Galv.Coat.
YS-02	M8	Metal+ Electro-Galv.Coat.
YS-03	M10	Metal+ Electro-Galv.Coat.
YS-04	M12	Metal+ Electro-Galv.Coat.

SPRINGLESS METAL NUT

EAC CE



MSM Code	Thread Size	Material
YS-11	M6	Metal+ Electro-Galv.Coat.
YS-12	M8	Metal+ Electro-Galv.Coat.
YS-13	M10	Metal+ Electro-Galv.Coat.
YS-14	M12	Metal+ Electro-Galv.Coat.

STANDARD NUT CLAMP

CE ENEC ENEC



Heavy duty double nut clamps are also available.

MSM Code	Thread Size	Material
SK-G1	1/2"	Metal+Electro-Galv. Coat.
SK-G2	3/4"	Metal+Electro-Galv. Coat.
SK-G3	1"	Metal+Electro-Galv. Coat.
SK-G4	1 1/4"	Metal+Electro-Galv. Coat.
SK-G5	1 1/2"	Metal+Electro-Galv. Coat.
SK-G6	2"	Metal+Electro-Galv. Coat.
SK-G7	2 1/2"	Metal+Electro-Galv. Coat.
SK-G8	3"	Metal+Electro-Galv. Coat.
SK-G9	4"	Metal+Electro-Galv. Coat.
SK-G10	5"	Metal+Electro-Galv. Coat.
SK-G11	6"	Metal+Electro-Galv. Coat.

SHORT CLAMP WITH TRIPHONE

CE ENEC ENEC



MSM Code	Thread Size	Material
TKK-G1	1/2"	Metal+Electro-Galv. Coat.
TKK-G2	3/4"	Metal+Electro-Galv. Coat.
TKK-G3	1"	Metal+Electro-Galv. Coat.
TKK-G4	1 1/4"	Metal+Electro-Galv. Coat.
TKK-G5	1 1/2"	Metal+Electro-Galv. Coat.
TKK-G6	2"	Metal+Electro-Galv. Coat.
TKK-G7	2 1/2"	Metal+Electro-Galv. Coat.
TKK-G8	3"	Metal+Electro-Galv. Coat.
TKK-G9	4"	Metal+Electro-Galv. Coat.

"U" TYPE BOLT CLAMP

CE ENEC ENEC



MSM Code	Thread Size	Material
UK-G1	1/2"	Metal+Electro-Galv.Coat.
UK-G2	3/4"	Metal+Electro-Galv.Coat.
UK-G3	1"	Metal+Electro-Galv.Coat.
UK-G4	1 1/4"	Metal+Electro-Galv.Coat.
UK-G5	1 1/2"	Metal+Electro-Galv.Coat.
UK-G6	2"	Metal+Electro-Galv.Coat.
UK-G7	2 1/2"	Metal+Electro-Galv.Coat.
UK-G8	3"	Metal+Electro-Galv.Coat.
UK-G9	4"	Metal+Electro-Galv.Coat.
UK-G10	5"	Metal+Electro-Galv.Coat.
UK-G11	6"	Metal+Electro-Galv.Coat.

RAIL TYPE CLAMP

CE ENEC ENEC



These materials can also be produced with stainless steel raw materials.

There are models of clamps in different sizes according to the number and section of the cable.

MSM Code	Thread Size	Clamping Ran. (mm)	Material
RK-G1	1/2"	21÷23	Metal+Sendzimir Galv.
RK-G2	3/4"	26÷29	Metal+Sendzimir Galv.
RK-G3	1"	32÷36	Metal+Sendzimir Galv.
RK-G4	1 1/4"	39÷42	Metal+Sendzimir Galv.
RK-G5	1 1/2"	46÷50	Metal+Sendzimir Galv.
RK-G6	2"	60÷63	Metal+Sendzimir Galv.
RK-G7	2 1/2"	74÷77	Metal+Sendzimir Galv.
RK-G8	3"	86÷90	Metal+Sendzimir Galv.
RK-G9	4"	112÷115	Metal+Sendzimir Galv.
RK-G10	5"	138÷141	Metal+Sendzimir Galv.
RK-G11	6"	160 ÷ 164	Metal+Sendzimir Galv.

HEAVY DUTY CLAMP WITH A HEAD

CE ENEC ENEC



MSM Code	Thread Size	Material
AKK-G1	1/2"	Metal+Electro-Galv. Coat.
AKK-G2	3/4"	Metal+Electro-Galv. Coat.
AKK-G3	1"	Metal+Electro-Galv. Coat.
AKK-G4	1 1/4"	Metal+Electro-Galv. Coat.
AKK-G5	1 1/2"	Metal+Electro-Galv. Coat.
AKK-G6	2"	Metal+Electro-Galv. Coat.
AKK-G7	2 1/2"	Metal+Electro-Galv. Coat.
AKK-G8	3"	Metal+Electro-Galv. Coat.
AKK-G9	4"	Metal+Electro-Galv. Coat.
AKK-G10	5"	Metal+Electro-Galv. Coat.
AKK-G11	6"	Metal+Electro-Galv. Coat.

LONG CLAMP WITH TRIPHONE

CE ENEC ENEC



MSM Code	Thread Size	Material
TUK-G1	1/2"	Metal+Electro-Galv. Coat.
TUK-G2	3/4"	Metal+Electro-Galv. Coat.
TUK-G3	1"	Metal+Electro-Galv. Coat.
TUK-G4	1 1/4"	Metal+Electro-Galv. Coat.
TUK-G5	1 1/2"	Metal+Electro-Galv. Coat.
TUK-G6	2"	Metal+Electro-Galv. Coat.
TUK-G7	2 1/2"	Metal+Electro-Galv. Coat.
TUK-G8	3"	Metal+Electro-Galv. Coat.
TUK-G9	4"	Metal+Electro-Galv. Coat.

GROUNDING CLAMP

CE ENEC ENEC



MSM Code	Thread Size	Clamping Ran. (mm)	Material
TK-G1	1/2"	16÷23	Metal+Nickel Coat.
TK-G2	3/4"	20÷30	Metal+Nickel Coat.
TK-G3	1"	28÷48	Metal+Nickel Coat.
TK-G4	1 1/4"	38÷58	Metal+Nickel Coat.
TK-G5	1 1/2"	44÷64	Metal+Nickel Coat.
TK-G6	2"	57÷76	Metal+Nickel Coat.
TK-G7	2 1/2"	65÷82	Metal+Nickel Coat.
TK-G8	3"	85÷103	Metal+Nickel Coat.
TK-G9	4"	105÷121	Metal+Nickel Coat.
TK-G10	5"	130÷146	Metal+Nickel Coat.
TK-G11	6"	150 ÷ 170	Metal+Nickel Coat.

ALUMINUM & POLYAMIDE CABLE CLAMP

CE ENEC ENEC



MSM Code	Clamping Ran (mm)	Material
AKK-40	31-40	Aluminum Casting
AKK-50	41-50	Aluminum Casting
AKK-60	51-60	Aluminum Casting
AKK-70	61-70	Aluminum Casting
AKK-80	71-80	Aluminum Casting
AKK-90	81-90	Aluminum Casting
MSM Code	Clamping Ran (mm)	Material
HKK-34	26-34	Polyamide
HKK-42	35-42	Polyamide
HKK-50	44-50	Polyamide
HKK-58	52-58	Polyamide

CONDULET TYPE "C"

CE ENEC



MSM Code	Thread Size	Material
SD-C-G1	1/2"	Cast Iron+El.-Galv.Coat.
SD-C-G2	3/4"	Cast Iron+El.-Galv.Coat.
SD-C-G3	1"	Cast Iron+El.-Galv.Coat.
SD-C-G4	1 1/4"	Cast Iron+El.-Galv.Coat.
SD-C-G5	1 1/2"	Cast Iron+El.-Galv.Coat.
SD-C-G6	2"	Cast Iron+El.-Galv.Coat.
SD-C-G7	2 1/2"	Cast Iron+El.-Galv.Coat.
SD-C-G8	3"	Cast Iron+El.-Galv.Coat.
SD-C-G9	4"	Cast Iron+El.-Galv.Coat.

CONDULET TYPE "T"

CE ENEC



MSM Code	Thread Size	Material
SD-T-G1	1/2"	Cast Iron+El.-Galv.Coat.
SD-T-G2	3/4"	Cast Iron+El.-Galv.Coat.
SD-T-G3	1"	Cast Iron+El.-Galv.Coat.
SD-T-G4	1 1/4"	Cast Iron+El.-Galv.Coat.
SD-T-G5	1 1/2"	Cast Iron+El.-Galv.Coat.
SD-T-G6	2"	Cast Iron+El.-Galv.Coat.
SD-T-G7	2 1/2"	Cast Iron+El.-Galv.Coat.
SD-T-G8	3"	Cast Iron+El.-Galv.Coat.
SD-T-G9	4"	Cast Iron+El.-Galv.Coat.

CONDULET TYPE "X"

CE ENEC



MSM Code	Thread Size	Material
SD-X-G1	1/2"	Cast Iron+El.-Galv.Coat.
SD-X-G2	3/4"	Cast Iron+El.-Galv.Coat.
SD-X-G3	1"	Cast Iron+El.-Galv.Coat.
SD-X-G4	1 1/4"	Cast Iron+El.-Galv.Coat.
SD-X-G5	1 1/2"	Cast Iron+El.-Galv.Coat.
SD-X-G6	2"	Cast Iron+El.-Galv.Coat.
SD-X-G7	2 1/2"	Cast Iron+El.-Galv.Coat.
SD-X-G8	3"	Cast Iron+El.-Galv.Coat.
SD-X-G9	4"	Cast Iron+El.-Galv.Coat.

CONDULET TYPE "LB"

CE ENEC



MSM Code	Thread Size	Material
SD-LB-G1	1/2"	Cast Iron+El.-Galv.Coat.
SD-LB-G2	3/4"	Cast Iron+El.-Galv.Coat.
SD-LB-G3	1"	Cast Iron+El.-Galv.Coat.
SD-LB-G4	1 1/4"	Cast Iron+El.-Galv.Coat.
SD-LB-G5	1 1/2"	Cast Iron+El.-Galv.Coat.
SD-LB-G6	2"	Cast Iron+El.-Galv.Coat.
SD-LB-G7	2 1/2"	Cast Iron+El.-Galv.Coat.
SD-LB-G8	3"	Cast Iron+El.-Galv.Coat.
SD-LB-G9	4"	Cast Iron+El.-Galv.Coat.

CONDULET TYPE "LL"

CE ENEC



MSM Code	Thread Size	Material
SD-LL-G1	1/2"	Cast Iron+El.-Galv.Coat.
SD-LL-G2	3/4"	Cast Iron+El.-Galv.Coat.
SD-LL-G3	1"	Cast Iron+El.-Galv.Coat.
SD-LL-G4	1 1/4"	Cast Iron+El.-Galv.Coat.
SD-LL-G5	1 1/2"	Cast Iron+El.-Galv.Coat.
SD-LL-G6	2"	Cast Iron+El.-Galv.Coat.
SD-LL-G7	2 1/2"	Cast Iron+El.-Galv.Coat.
SD-LL-G8	3"	Cast Iron+El.-Galv.Coat.
SD-LL-G9	4"	Cast Iron+El.-Galv.Coat.

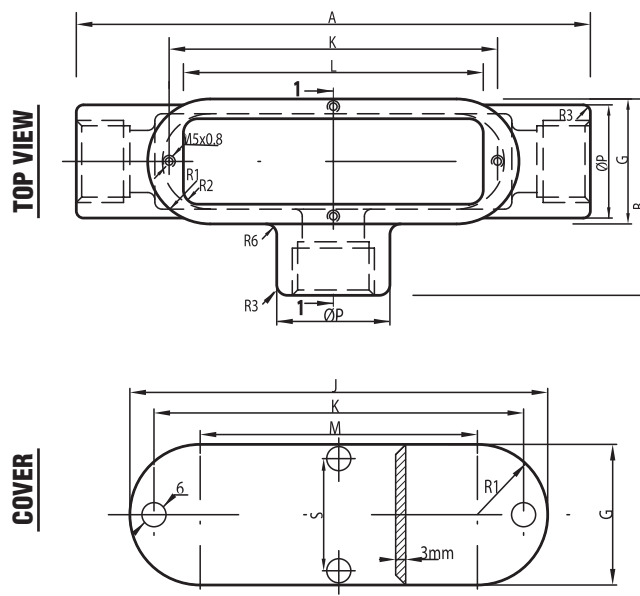
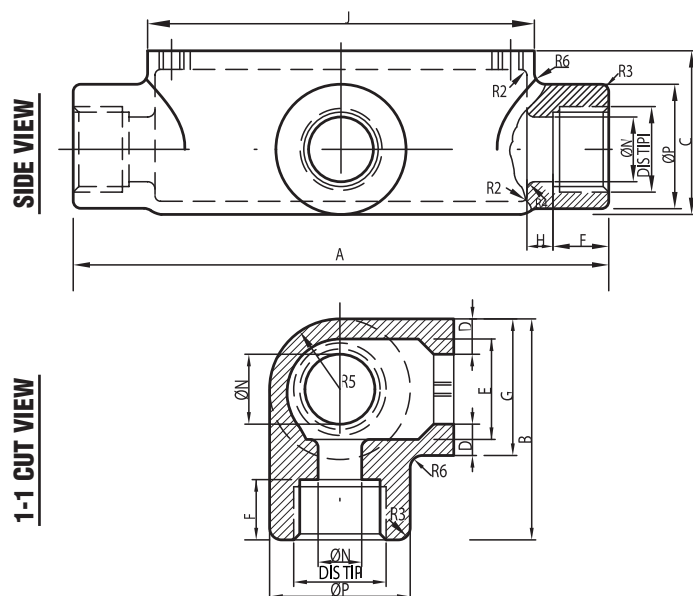
CONDULET TYPE "LR"

CE ENEC



MSM Code	Thread Size	Material
SD-LR-G1	1/2"	Cast Iron+El.-Galv.Coat.
SD-LR-G2	3/4"	Cast Iron+El.-Galv.Coat.
SD-LR-G3	1"	Cast Iron+El.-Galv.Coat.
SD-LR-G4	1 1/4"	Cast Iron+El.-Galv.Coat.
SD-LR-G5	1 1/2"	Cast Iron+El.-Galv.Coat.
SD-LR-G6	2"	Cast Iron+El.-Galv.Coat.
SD-LR-G7	2 1/2"	Cast Iron+El.-Galv.Coat.
SD-LR-G8	3"	Cast Iron+El.-Galv.Coat.
SD-LR-G9	4"	Cast Iron+El.-Galv.Coat.

"T" TYPE SIZES



MSM Code	Thread Size	Material	Sizes (mm)																	
			A	B	C	D	E	F	G	H	J	K	L	M	N	P	R1	R2	R3	R4
SD-T-G1	1/2"	Cast Iron+El.-Galv.Coat.	144	55	44	5	28	15	35	7	104	92	84	69	17,4	31	17,5	5	2	2
SD-T-G2	3/4"	Cast Iron+El.-Galv.Coat.	160	59	51	5	33	15	40	7	120	110	100	80	20,0	40	20,0	5	2	2
SD-T-G3	1"	Cast Iron+El.-Galv.Coat.	186	67	57	5	38	18	45	9	143	127	116	98	22,5	46	22,5	9	2	2
SD-T-G4	1 1/4"	Cast Iron+El.-Galv.Coat.	216	80	67	5	48	18	56	11	168	148	135	112	28,0	52	28,0	9	2	2
SD-T-G5	1 1/2"	Cast Iron+El.-Galv.Coat.	263	102	71	8	62	18	70	12	200	181	165	130	35,0	62	35,0	40	4	-
SD-T-G6	2"	Cast Iron+El.-Galv.Coat.	311	127	90	9,5	86	18	95	12	248	232	217	153	47,5	75	47,5	47	4	-
SD-T-G7	3"	Cast Iron+El.-Galv.Coat.	397	170	122	10	11	22	127	22	311	292	276	184	63,5	109	63,5	50	5	-
SD-T-G8	4"	Cast Iron+El.-Galv.Coat.	466	211	161	10	142	52	154	11	350	313	304	222	77,5	132	77,5	67	5	-

CONDULETS - AD-... TYPES

CONDULET TYPE "C,,

CE ENEC



MSM Code	Thread Size	Material
AD-C-G1	1/2"	Alum.Cast+E.Static Paint
AD-C-G2	3/4"	Alum.Cast+E.Static Paint
AD-C-G3	1"	Alum.Cast+E.Static Paint
AD-C-G4	1 1/4"	Alum.Cast+E.Static Paint
AD-C-G5	1 1/2"	Alum.Cast+E.Static Paint
AD-C-G6	2"	Alum.Cast+E.Static Paint
AD-C-G7	3"	Alum.Cast+E.Static Paint
AD-C-G8	4"	Alum.Cast+E.Static Paint

CONDULET TYPE "T,,

CE ENEC



MSM Code	Thread Size	Material
AD-T-G1	1/2"	Alum.Cast+E.Static Paint
AD-T-G2	3/4"	Alum.Cast+E.Static Paint
AD-T-G3	1"	Alum.Cast+E.Static Paint
AD-T-G4	1 1/4"	Alum.Cast+E.Static Paint
AD-T-G5	1 1/2"	Alum.Cast+E.Static Paint
AD-T-G6	2"	Alum.Cast+E.Static Paint
AD-T-G7	3"	Alum.Cast+E.Static Paint
AD-T-G8	4"	Alum.Cast+E.Static Paint

CONDULET TYPE "X,,

CE ENEC



MSM Code	Thread Size	Material
AD-X-G1	1/2"	Alum.Cast+E.Static Paint
AD-X-G2	3/4"	Alum.Cast+E.Static Paint
AD-X-G3	1"	Alum.Cast+E.Static Paint
AD-X-G4	1 1/4"	Alum.Cast+E.Static Paint
AD-X-G5	1 1/2"	Alum.Cast+E.Static Paint
AD-X-G6	2"	Alum.Cast+E.Static Paint
AD-X-G7	3"	Alum.Cast+E.Static Paint
AD-X-G8	4"	Alum.Cast+E.Static Paint

CONDULET TYPE "LB,,

CE ENEC



MSM Code	Thread Size	Material
AD-LB-G1	1/2"	Alum.Cast+E.Static Paint
AD-LB-G2	3/4"	Alum.Cast+E.Static Paint
AD-LB-G3	1"	Alum.Cast+E.Static Paint
AD-LB-G4	1 1/4"	Alum.Cast+E.Static Paint
AD-LB-G5	1 1/2"	Alum.Cast+E.Static Paint
AD-LB-G6	2"	Alum.Cast+E.Static Paint
AD-LB-G7	3"	Alum.Cast+E.Static Paint
AD-LB-G8	4"	Alum.Cast+E.Static Paint

CONDULET TYPE "LL,,

CE ENEC



MSM Code	Thread Size	Material
AD-LL-G1	1/2"	Alum.Cast+E.Static Paint
AD-LL-G2	3/4"	Alum.Cast+E.Static Paint
AD-LL-G3	1"	Alum.Cast+E.Static Paint
AD-LL-G4	1 1/4"	Alum.Cast+E.Static Paint
AD-LL-G5	1 1/2"	Alum.Cast+E.Static Paint
AD-LL-G6	2"	Alum.Cast+E.Static Paint
AD-LL-G7	3"	Alum.Cast+E.Static Paint
AD-LL-G8	4"	Alum.Cast+E.Static Paint

CONDULET TYPE "LR,,

CE ENEC



MSM Code	Thread Size	Material
AD-LR-G1	1/2"	Alum.Cast+E.Static Paint
AD-LR-G2	3/4"	Alum.Cast+E.Static Paint
AD-LR-G3	1"	Alum.Cast+E.Static Paint
AD-LR-G4	1 1/4"	Alum.Cast+E.Static Paint
AD-LR-G5	1 1/2"	Alum.Cast+E.Static Paint
AD-LR-G6	2"	Alum.Cast+E.Static Paint
AD-LR-G7	3"	Alum.Cast+E.Static Paint
AD-LR-G8	4"	Alum.Cast+E.Static Paint

NOTE: All boxes and condulets can also be produced with electro-galvanized coating.

JUNCTION BOXES - AS-... TYPES

"ASC" TYPE CAST JUNCTION BOX (2 WAY)

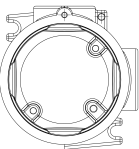
CE ENEC



MSM Code	Gas Thread Size	Metric Thread Size
ASC-119	1/2"	M16x1,5
ASC-219	3/4"	M20x1,5
ASC-319	1"	M25x1,5

"ASL" TYPE CAST JUNCTION BOX (2 WAY)

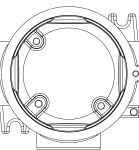
CE ENEC



MSM Code	Gas Thread Size	Metric Thread Size
ASL-119	1/2"	M16x1,5
ASL-219	3/4"	M20x1,5
ASL-319	1"	M25x1,5

"AST" TYPE CAST JUNCTION BOX (3 WAY)

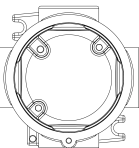
CE ENEC



MSM Code	Gas Thread Size	Metric Thread Size
AST-119	1/2"	M16x1,5
AST-219	3/4"	M20x1,5
AST-319	1"	M25x1,5

"ASX" TYPE CAST JUNCTION BOX (4 WAY)

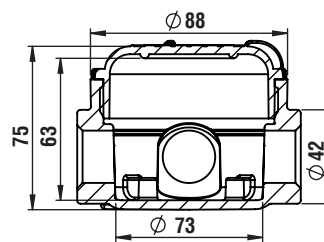
CE ENEC



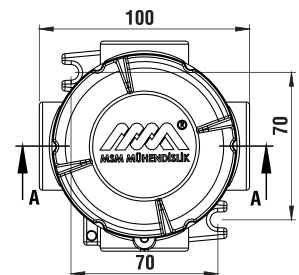
MSM Code	Gas Thread Size	Metric Thread Size
ASX-119	1/2"	M16x1,5
ASX-219	3/4"	M20x1,5
ASX-319	1"	M25x1,5



SECTION A-A



TOP VIEW



NOTES:

- It is aluminum injection casting. Has sandblasted and vibrated models.
- The inner depth of the boxes is net 63 mm, the inner diameter is net 77 mm and body wall thickness is 3 mm.
- Has two terminal mounting lugs and grounding screw on inner surface of the junction box.
- Special production can be made on the same box in different thread type features and sizes.
- According to request, electrostatic painting in RAL ... color can be made.
- Used for cable distribution and connection with IMC/RSC type conduits in surface installation.

CAST IRON JUNCTION BOXES - GRF-... TYPES

"GRFC" CAST IRON JUNCTION BOX

CE ENEC



MSM Code	Thread Size	Inside Depth (mm)
GRFC-119	1/2"	42
GRFC-219	3/4"	
GRFC-129	1/2"	62
GRFC-229	3/4"	
GRFC-329	1"	82
GRFC-139	1/2"	
GRFC-239	3/4"	
GRFC-339	1"	

"GRFT" CAST IRON JUNCTION BOX

CE ENEC



MSM Code	Thread Size	Inside Depth (mm)
GRFT-119	1/2"	42
GRFT-219	3/4"	
GRFT-129	1/2"	62
GRFT-229	3/4"	
GRFT-329	1"	82
GRFT-139	1/2"	
GRFT-239	3/4"	
GRFT-339	1"	

CAST IRON JUNCTION BOXES - GS-... TYPES

"GSC" CAST IRON JUNCTION BOX

CE ENEC



Code (No Fix.Elem.)	Code (With a Fix.Elem.)	Thread Size	Inner Diameter (mm)
GSC-110	GSC-119	1/2"	90
GSC-210	GSC-219	3/4"	
GSC-310	GSC-319	1"	
GSC-410	---	1 1/4"	
GSC-510	---	1 1/2"	
GSC-610	---	2"	122
GSC-120	GSC-129	1/2"	
GSC-220	GSC-229	3/4"	
GSC-320	GSC-329	1"	

"GST" CAST IRON JUNC. BOX - WITH/WITHOUT A FIXING ELEMENT

CE ENEC



Code (No Fix.Elem.)	Code (With a Fix.Elem.)	Thread Size	Inner Diameter (mm)
GST-110	GST-119	1/2"	90
GST-210	GST-219	3/4"	
GST-310	GST-319	1"	
GST-410	---	1 1/4"	
GST-510	---	1 1/2"	
GST-610	---	2"	122
GST-120	GST-129	1/2"	
GST-220	GST-229	3/4"	
GST-320	GST-329	1"	

"GS" CAST IRON JUNC. BOX - WITH/WITHOUT A FIXING ELEMENT

CE ENEC



Code (No Fix.Elem.)	Code (With a Fix.Elem.)	Thread Size	Inner Diameter (mm)
GS-110	GS-119	1/2"	90
GS-210	GS-219	3/4"	
GS-310	GS-319	1"	
GS-410	---	1 1/4"	
GS-510	---	1 1/2"	
GS-610	---	2"	122
GS-120	GS-129	1/2"	
GS-220	GS-229	3/4"	
GS-320	GS-329	1"	

"GRFL" CAST IRON JUNCTION BOX

CE ENEC



MSM Code	Thread Size	Inside Depth (mm)
GRFL-119	1/2"	42
GRFL-219	3/4"	
GRFL-129	1/2"	62
GRFL-229	3/4"	
GRFL-329	1"	82
GRFL-139	1/2"	
GRFL-239	3/4"	
GRFL-339	1"	

"GRFX" CAST IRON JUNCTION BOX

CE ENEC



MSM Code	Thread Size	Inside Depth (mm)
GRFX-119	1/2"	42
GRFX-219	3/4"	
GRFX-129	1/2"	62
GRFX-229	3/4"	
GRFX-329	1"	82
GRFX-139	1/2"	
GRFX-239	3/4"	
GRFX-339	1"	

"GSL" CAST IRON JUNC. BOX - WITH/WITHOUT A FIXING ELEMENT

CE ENEC



Code (No Fix.Elem.)	Code (With a Fix.Elem.)	Thread Size	Inner Diameter (mm)
GSL-110	GSL-119	1/2"	90
GSL-210	GSL-219	3/4"	
GSL-310	GSL-319	1"	
GSL-410	---	1 1/4"	
GSL-510	---	1 1/2"	
GSL-610	---	2"	122
GSL-120	GSL-129	1/2"	
GSL-220	GSL-229	3/4"	
GSL-320	GSL-329	1"	

"GSX" CAST IRON JUNC. BOX - WITH/WITHOUT A FIXING ELEMENT

CE ENEC



Code (No Fix.Elem.)	Code (With a Fix.Elem.)	Thread Size	Inner Diameter (mm)
GSX-110	GSX-119	1/2"	90
GSX-210	GSX-219	3/4"	
GSX-310	GSX-319	1"	
GSX-410	---	1 1/4"	
GSX-510	---	1 1/2"	
GSX-610	---	2"	122
GSX-120	GSX-129	1/2"	
GSX-220	GSX-229	3/4"	
GSX-320	GSX-329	1"	

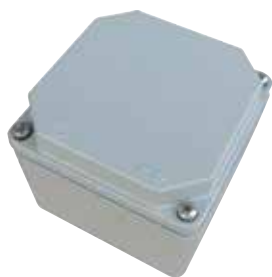
GENERAL NOTES:

- All materials produced cast iron and electro-galvanized coated.
- The depth of all "GS" junction boxes is 52 mm.
The diameter of all "GRF" junction boxes is 116 mm.
- All local products are manufactured in accordance with metallurgical industry specification (ERENCO).
- The standard size of fittings is up to 4", bigger sizes up to 6" can be produced upon request.
- All boxes with covers have different types of outlets. A required type of outlet thread can be produced upon request.
- Some items on this page having a GAS thread type can also be produced with Pg, metric or NPT thread type.

CAST ALUMINUM JUNCTION BOX

IP67

CE ENEC



- Certified by TSE, GOST-R, EAC and CE.
- Made of Cast Aluminum.
- Electrostatic painted in RAL 7040 color.
- Connector, rail, terminal strip etc. can be mounted upon request.
- The number and size of knockouts can be specified by a customer.

MSM Code	Size WxLxH (mm)	Wall Thickness (mm)	Quantity per Package (pcs)
MAB-01	72x72x57	3,1	20
MAB-02	80x80x60	3,1	15
MAB-03	80x80x73	3,1	9
MAB-04	72x142x57	3,1	20
MAB-05	80x130x60	3,1	10
MAB-06	100x100x73	3,1	6
MAB-07	100x100x80	3,2	18
MAB-08	100x130x80	3,2	10
MAB-09	130x130x90	3,2	20
MAB-10	130x190x90	3,2	15
MAB-11	130x230x90	3,2	14
MAB-12	160x160x90	3,2	20
MAB-13	170x190x90	3,2	12
MAB-14	190x250x90	3,2	8
MAB-15	190x350x90	3,2	7
MAB-16	230x280x110	3,2	4
MAB-17	250x250x110	3,2	4
MAB-18	310x400x140	3,2	1

METAL SHEET JUNCTION BOX - HEAVY DUTY

CE ENEC



- Conforms to ERENCO standards. Hot-dip galvanized coating is also available.
- The number and size of knockouts can be specified by a customer.
- The gap between the box and the cover is sealed with neoprene.
- Comes with at least 4 mounting flanges.
- M8 brass bolts are used in the corners of the box.

Anma Tipi	Size WxLxH (mm)	Flange (mm)	Wall Thickness (mm)
A	200x150x150	30	3
A1	200x200x200	30	3
B	300x200x200	30	3
B1	300x300x300	30	3
C	450x300x300	30	3
C1	450x400x400	30	3
D	600x300x300	50	3
D1	600x400x400	50	4
D2	600x600x600	50	4
E	800x700x400	50	4
F	1000x450x350	50	4
F1	1000x600x350	50	4
F2	1000x700x500	50	4
F3	1000x800x800	50	4

SWITCH & SOCKET METAL BOX / MONO TYPE (72x72x50mm)

CE ENEC

APK-01



- Certified by GOST-R, EAC and CE.
- Made of galvanized sheet. (0,8mm)
- Has a grounding screw in box.
- There are blast holes on;
 - Side surfaces; 2 pcs 1/2" (Ø21mm), 2 pcs 3/4" (Ø26mm),
 - Bottom surface; 1 pc 1/2" (Ø21mm).

SWITCH & SOCKET METAL BOX / DUAL TYPE (144x72x50mm)

CE ENEC

APK-02



- Certified by GOST-R, EAC and CE.
- Made of galvanized sheet. (0,8mm)
- Has a grounding screw in box.
- There are blast holes on;
 - Side surfaces; 4 pcs 1/2" (Ø21mm), 4 pcs 3/4" (Ø26mm),
 - Bottom surface; 2 pcs 1/2" (Ø21mm), 1 pc 3/4" (Ø26mm).

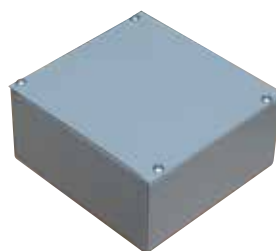
NOTES:

- Hole sizes are suitable for EMT, IMC and RSC type galvanized conduits.
- A connector is required for EMT conduit connection for these boxes.
- If desired, it can be produced in special sizes and electrostatic paint in the desired RAL ... color.
- In standard production, the upper mounting lugs are suitable for the installation of EUROPEAN and TURKISH standard local Switch & Socket types (especially Legrand brand).

GALVANIZED METAL SHEET JUNCTION BOX

IP44

CE ENEC



- Certified by GOST-R, EAC and CE.
- Made of Galvanized Metal Sheet.
- Can be painted in any required color with electrostatic paint.
- Connector, rail, terminal strip etc. can be mounted upon request.
- The number and size of knockouts can be specified by a customer.

MSM Code	Size WxLxH (mm)	Flange (mm)	Wall Thickness (mm)
GBK-01	70x70x50	10	1,00
GBK-02	80x80x60	10	1,00
GBK-03	70x110x60	10	1,00
GBK-04	70x150x60	10	1,00
GBK-05	80x130x60	10	1,00
GBK-06	80x170x70	10	1,00
GBK-07	100x100x80	10	1,00
GBK-08	100x130x80	10	1,00
GBK-09	130x130x90	15	1,50
GBK-10	130x190x90	15	1,50
GBK-11	130x230x90	15	1,50
GBK-12	160x160x90	15	1,50
GBK-13	170x190x90	15	1,50
GBK-14	190x250x90	20	2,00

⊗ In these type of boxes, special manufacturing can be made in desired sizes and thickness, holes can be open.

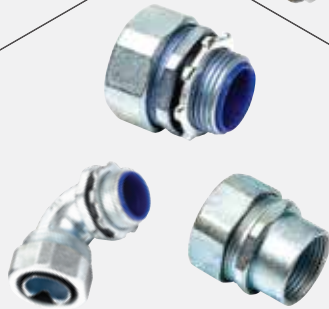
Flexible Steel Conduits & General Accessories Series

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cable protection, carrying and ending systems

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IMPORTED PRODUCTS
LOCAL PRODUCTS



- ▶ Tin-Plated Flexible Steel Conduits
- ▶ Flexible Conduit Connectors For Indoor Use
- ▶ Galvanized Flexible Steel Conduits
- ▶ Flexible Conduit Connectors For Outdoor Use
- ▶ Silok Type Conduit & Cable Glands
- ▶ Liquidtight Conduit Connectors For Outdoor Use

- ▶ Flexible Steel Conduits / Imported
- ▶ Flexible Steel Conduit Connectors / Imported
- ▶ Flexible Steel Conduit Accessories / Imported
- ▶ Armoured/Unarmoured Metal Cable Glands
- ▶ Etanj Metal Cable Glands and Accessories
- ▶ Brass Metal Cable Glands

PVC COATED FLEXIBLE STEEL CONDUIT

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Flexible metal conduit made of tin plate, PVC insulation coated.
- $\pm 10\%$ tolerance of especially bigger sizes of inside and outside diameters.
- The standard color is black, any other color is available upon request.
- Especially used indoors, for mechanical cable protection in cable installation.

(GRAY-BLACK) $-40^{\circ}\text{C} / +70^{\circ}\text{C}$

MSM Code	Size	Inside Diameter (mm)	Outside Diameter (mm)	Meters Per Roll (mt)
MYN-09	1/4"	9	12	50
MYN-11	3/8"	11	15	50
MYN-14	1/2"	14	18	50
MYN-18	3/4"	18	22	50
MYN-26	1"	26	30	25
MYN-29	1 1/4"	29	36	25
MYN-36	1 1/2"	36	42	25
MYN-48	2"	51	55	25
MYN-63	2 1/2"	64	74	25
MYN-75	3"	74	84	15
MYN-100	4"	94	104	10

HALOGEN-FREE COATED FLEXIBLE STEEL CONDUIT

CE PG EAC TUR CERT



- Certified by CE, GOST-R and EAC.
- It has approved test certificate by TÜRCERT.
- Flexible metal conduit made of tin plate, halogen-free insulation coated.
- $\pm 10\%$ tolerance of especially bigger sizes of inside and outside diameters.
- The standard color is white, any other color is available upon request.
- Especially used indoors, for cable installation in social facilities (schools, hospitals, shopping malls etc.).

(WHITE) $-40^{\circ}\text{C} / +70^{\circ}\text{C}$

MSM Code	Size	Inside Diameter (mm)	Outside Diameter (mm)	Meters Per Roll (mt)
MNH-10	1/4"	10	14	50
MNH-13	3/8"	13	17	50
MNH-16	1/2"	16	21	50
MNH-21	3/4"	21	26	50
MNH-26	1"	26	32	25
MNH-35	1 1/4"	35	41	25
MNH-40	1 1/2"	40	47	25
MNH-52	2"	52	59	25
MNH-63	2 1/2"	63	72	25
MNH-78	3"	78	88	15
MNH-102	4"	102	112	10

FLEXIBLE STEEL CONDUIT WITHOUT PVC COATING

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Flexible metal conduit made of tin plate.
- $\pm 10\%$ tolerance of especially bigger sizes of inside and outside diameters.
- Especially used indoors, for mechanic cable protection in cable installation in humid-free environments.

 $-40^{\circ}\text{C} / +200^{\circ}\text{C}$

MSM Code	Size	Inside Diameter (mm)	Outside Diameter (mm)	Meters Per Roll (mt)
MYS-09	1/4"	9	11	50
MYS-11	3/8"	11	14	50
MYS-14	1/2"	14	17	50
MYS-18	3/4"	18	21	50
MYS-26	1"	26	29	25
MYS-29	1 1/4"	29	35	25
MYS-36	1 1/2"	36	41	25
MYS-48	2"	51	54	25
MYS-63	2 1/2"	64	73	25
MYS-75	3"	74	83	15
MYS-100	4"	94	103	10

STEEL WIRE BRAIDED FLEX. STEEL COND. WITH/WITHOUT PVC COATING

CE PG EAC



- Certified by CE, GOST-R and EAC.
- The inside construction is made of PVC coated tin plate, the outside part is steel wire braiding.
- The wire braiding can be made of stainless steel if required.
- The inside construction can be made of tin plate without PVC coating if required.
- Especially used to protect the cable from electromagnetic fields.

⊛

Galvanized Braiding Code	Stainless Steel Braiding Code	With. PVC Coat. Galv. Braid. Code	Size	Inside Dia. (mm)	Outside Dia. (mm)
MYNG-09	MYNP-09	MYSG-09	1/4"	9	14
MYNG-11	MYNP-11	MYSG-11	3/8"	11	17
MYNG-14	MYNP-14	MYSG-14	1/2"	14	20
MYNG-18	MYNP-18	MYSG-18	3/4"	18	24
MYNG-26	MYNP-26	MYSG-26	1"	26	32
MYNG-29	MYNP-29	MYSG-29	1 1/4"	29	38
MYNG-36	MYNP-36	MYSG-36	1 1/2"	36	44
MYNG-48	MYNP-48	MYSG-48	2"	51	57
MYNG-63	MYNP-63	MYSG-63	2 1/2"	64	76
MYNG-75	MYNP-75	MYSG-75	3"	74	86
MYNG-100	MYNP-100	MYSG-100	4"	94	106

⊛ Ambient temperature of MYNG, MYNP type conduits is: $-40^{\circ}\text{C} / +150^{\circ}\text{C}$, for MYSG type conduits: $-100^{\circ}\text{C} / +250^{\circ}\text{C}$.

STRAIGHT THREAD METAL CONNECTOR / MALE TYPE

IP44

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Made of Brass with a nickel coating over it.
- Can also be produced with a required conduit female thread type.
- Protection level up to IP-54 when used with a suitable gasket (O-ring).
- NPT thread type and any desired thread size available upon request.

LOCAL MEASUREMENTS

Gas Code	Gas Type Size	Metric Code	Metric Type Size	PG Code	PG Type Size	Suitable Fl. Cond. Type
PSR-G1	1/4"	PSR-M1	M12x1,5	PSR-P2	Pg9	MY...-09
PSR-G2	3/8"	PSR-M2	M16x1,5	PSR-P3	Pg11	MY...-11
PSR-G3	1/2"	PSR-M3	M20x1,5	PSR-P4/P5	Pg13,5/16	MY...-14
PSR-G4	3/4"	PSR-M4	M25x1,5	PSR-P6	Pg21	MY...-18
PSR-G5	1"	PSR-M5	M32x1,5	PSR-P7	Pg29	MY...-26
PSR-G6	1 1/4"	PSR-M6	M40x1,5	PSR-P8	Pg36	MY...-29
PSR-G7	1 1/2"	PSR-M7	M50x1,5	PSR-P9	Pg42	MY...-36
PSR-G8	2"	PSR-M8	M63x1,5	PSR-P10	Pg48	MY...-48
PSR-G9	2 1/2"	PSR-M9	M75x1,5	---	---	MY...-63
PSR-G10	3"	PSR-M10	M80x1,5	---	---	MY...-75
PSR-G11	4"	PSR-M11	M90x1,5	---	---	MY...-100

SWIVEL THREAD METAL CONNECTOR / MALE TYPE

IP44

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Made of Brass with a nickel coating over it.
- Can also be produced with a required conduit female thread type.
- Protection level up to IP-54 when used with a suitable gasket (O-ring).
- NPT thread type and any desired thread size available upon request.

LOCAL MEASUREMENTS

Gas Code	Gas Type Size	Metric Code	Metric Type Size	PG Code	PG Type Size	Suitable Fl. Cond. Type
PDR-G1	1/4"	PDR-M1	M12x1,5	PDR-P2	Pg9	MY...-09
PDR-G2	3/8"	PDR-M2	M16x1,5	PDR-P3	Pg11	MY...-11
PDR-G3	1/2"	PDR-M3	M20x1,5	PDR-P4/P5	Pg13,5/16	MY...-14
PDR-G4	3/4"	PDR-M4	M25x1,5	PDR-P6	Pg21	MY...-18
PDR-G5	1"	PDR-M5	M32x1,5	PDR-P7	Pg29	MY...-26
PDR-G6	1 1/4"	PDR-M6	M40x1,5	PDR-P8	Pg36	MY...-29
PDR-G7	1 1/2"	PDR-M7	M50x1,5	PDR-P9	Pg42	MY...-36
PDR-G8	2"	PDR-M8	M63x1,5	PDR-P10	Pg48	MY...-48
PDR-G9	2 1/2"	PDR-M9	M75x1,5	---	---	MY...-63
PDR-G10	3"	PDR-M10	M80x1,5	---	---	MY...-75
PDR-G11	4"	PDR-M11	M90x1,5	---	---	MY...-100

STRAIGHT THREAD METAL CONNECTOR / MALE TYPE

IP44

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Made of Brass with a nickel coating over it.
- Can also be produced with a required conduit female thread type.
- Protection level up to IP-54 when used with a suitable gasket (O-ring).
- NPT thread type and any desired thread size available upon request.

IMPORT MEASUREMENTS

Gas Code	Gas Type Size	Metric Code	Metric Type Size	PG Code	PG Type Size	Suitable Fl. Cond. Type
ESR-G1	1/4"	ESR-M1	M12x1,5	ESR-P2	Pg9	MN...-10
ESR-G2	3/8"	ESR-M2	M16x1,5	ESR-P3	Pg11	MN...-13
ESR-G3	1/2"	ESR-M3	M20x1,5	ESR-P4/P5	Pg13,5/16	MN...-16
ESR-G4	3/4"	ESR-M4	M25x1,5	ESR-P6	Pg21	MN...-21
ESR-G5	1"	ESR-M5	M32x1,5	ESR-P7	Pg29	MN...-26
ESR-G6	1 1/4"	ESR-M6	M40x1,5	ESR-P8	Pg36	MN...-35
ESR-G7	1 1/2"	ESR-M7	M50x1,5	ESR-P9	Pg42	MN...-40
ESR-G8	2"	ESR-M8	M63x1,5	ESR-P10	Pg48	MN...-52
ESR-G9	2 1/2"	ESR-M9	M75x1,5	---	---	MN...-63
ESR-G10	3"	ESR-M10	M80x1,5	---	---	MN...-78
ESR-G11	4"	ESR-M11	M90x1,5	---	---	MN...-102

SWIVEL THREAD METAL CONNECTOR / MALE TYPE

IP44

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Made of Brass with a nickel coating over it.
- Can also be produced with a required conduit female thread type.
- Protection level up to IP-54 when used with a suitable gasket (O-ring).
- NPT thread type and any desired thread size available upon request.

IMPORT MEASUREMENTS

Gas Code	Gas Type Size	Metric Code	Metric Type Size	PG Code	PG Type Size	Suitable Fl. Cond. Type
EDR-G1	1/4"	EDR-M1	M12x1,5	EDR-P2	Pg9	MN...-10
EDR-G2	3/8"	EDR-M2	M16x1,5	EDR-P3	Pg11	MN...-13
EDR-G3	1/2"	EDR-M3	M20x1,5	EDR-P4/P5	Pg13,5/16	MN...-16
EDR-G4	3/4"	EDR-M4	M25x1,5	EDR-P6	Pg21	MN...-21
EDR-G5	1"	EDR-M5	M32x1,5	EDR-P7	Pg29	MN...-26
EDR-G6	1 1/4"	EDR-M6	M40x1,5	EDR-P8	Pg36	MN...-35
EDR-G7	1 1/2"	EDR-M7	M50x1,5	EDR-P9	Pg42	MN...-40
EDR-G8	2"	EDR-M8	M63x1,5	EDR-P10	Pg48	MN...-52
EDR-G9	2 1/2"	EDR-M9	M75x1,5	---	---	MN...-63
EDR-G10	3"	EDR-M10	M80x1,5	---	---	MN...-78
EDR-G11	4"	EDR-M11	M90x1,5	---	---	MN...-102

PVC COATED FLEXIBLE STEEL CONDUIT

CE EAC



- Certified by CE, GOST-R and EAC.
- Flexible metal conduit made of galvanized sheet, PVC insulation coated.
- $\pm 10\%$ tolerance of especially bigger sizes of inside and outside diameters.
- The standard color is black, any other color is available upon request.
- Especially used indoors, in construction of social buildings, workshops, business centers and high-rise towers.

(BLACK-GRAY) -40°C / +70°C

MSM Code	Size	Inside Diameter (mm)	Outside Diameter (mm)	Meters Per Roll (mt)
MNY-10	1/4"	10	14	50
MNY-13	3/8"	13	17	50
MNY-16	1/2"	16	21	50
MNY-21	3/4"	21	26	50
MNY-26	1"	26	32	25
MNY-35	1 1/4"	35	41	25
MNY-40	1 1/2"	40	47	25
MNY-52	2"	52	59	25
MNY-63	2 1/2"	63	72	25
MNY-78	3"	78	88	15
MNY-102	4"	102	112	10

LIQUID-TIGHT TYPE FLEXIBLE STEEL CONDUIT

CE EAC



- Certified by CE, GOST-R and EAC.
- The inside surface is made galvanized steel, the outside part is PVC coated.
- Considering heavy duty service conditions it is recommended to use it with B.. type connectors.
- There is a cord inserted in the conduit in order to increase its bending durability.
- Due to its acid, oil and water resistance it is especially used in construction of industrial facilities, suitable for outside use.

(BLACK-GRAY) -40°C / +70°C

MSM Standard Code	MSM Economic Code	Size	Inside Dia. (mm)	Outside Dia. (mm)	Meters Per Roll (mt)
MLY-10	MLY-10.E	1/4"	10	14	30
MLY-13	MLY-13.E	3/8"	13	17	30
MLY-16	MLY-16.E	1/2"	16	21	30
MLY-21	MLY-21.E	3/4"	21	26	30
MLY-26	MLY-26.E	1"	26	32	30
MLY-35	MLY-35.E	1 1/4"	35	41	15
MLY-40	MLY-40.E	1 1/2"	40	47	15
MLY-52	MLY-52.E	2"	52	59	15
MLY-63	MLY-63.E	2 1/2"	63	72	15
MLY-78	MLY-78.E	3"	78	88	7,5
MLY-102	MLY-102.E	4"	102	112	7,5

FLEXIBLE STEEL CONDUIT WITHOUT PVC COATING

TSE CE EAC



- Certified by TSE, CE, GOST-R and EAC.
- Flexible metal conduit made of galvanized sheet.
- $\pm 10\%$ tolerance of especially bigger sizes of inside and outside diameters.
- Especially used indoors, in construction of social buildings, workshops, business centers and high-rise towers.

-40°C / +250°C

Galvanized Code	Stainless Steel Code	Size	Inside Dia. (mm)	Outside Dia. (mm)	Meters Per Roll (mt)
MNS-10	MNP-10	1/4"	10	13	50
MNS-13	MNP-13	3/8"	13	16	50
MNS-16	MNP-16	1/2"	16	20	50
MNS-21	MNP-21	3/4"	21	25	50
MNS-26	MNP-26	1"	26	31	25
MNS-35	MNP-35	1 1/4"	35	40	25
MNS-40	MNP-40	1 1/2"	40	46	25
MNS-52	MNP-52	2"	52	58	25
MNS-63	MNP-63	2 1/2"	63	71	25
MNS-78	MNP-78	3"	78	86	15
MNS-102	MNP-102	4"	102	109	10

STEEL WIRE BRAIDED FLEX. STEEL COND. WITH/WITHOUT PVC COATING

CE EAC



- Certified by CE, GOST-R and EAC.
- The inside construction is made of PVC coated galvanized sheet, the outside part is steel wire braiding.
- The wire braiding can be made of stainless steel if required.
- The inside construction can be made of galvanized sheet without PVC coating if required.
- Especially used to protect the cable from electromagnetic fields.

(*)

Galvanized Braiding Code	Stainless Steel Braiding Code	Without PVC Coat. Galv. Braid. Code	Size	Inside Dia. (mm)	Outside Dia. (mm)
MNYG-10	MNYP-10	MNSG-10	1/4"	10	16
MNYG-13	MNYP-13	MNSG-13	3/8"	13	19
MNYG-16	MNYP-16	MNSG-16	1/2"	16	23
MNYG-21	MNYP-21	MNSG-21	3/4"	21	28
MNYG-26	MNYP-26	MNSG-26	1"	26	34
MNYG-35	MNYP-35	MNSG-35	1 1/4"	35	43
MNYG-40	MNYP-40	MNSG-40	1 1/2"	40	49
MNYG-52	MNYP-52	MNSG-52	2"	52	61
MNYG-63	MNYP-63	MNSG-63	2 1/2"	63	74
MNYG-78	MNYP-78	MNSG-78	3"	78	90
MNYG-102	MNYP-102	MNSG-102	4"	102	114

(*) Ambient temperature of MNYG, MNYP type conduits is: -40°C / + 150°C, for MNSG type conduits: -100°C / + 250°C.

EXTERNAL TYPE STRAIGHT THREAD METAL CONNECTOR / MALE TYPE

IP 65

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Made of Brass with a nickel coating over it.
- Protection level up to IP-68 when used with a suitable gasket (O-ring). Working temperature -40°C / +105°C.
- **NPT** thread type, any desired size and thread size available upon request.
- Can also be produced in metal with electro-galvanized coating.
- Especially used in construction of industrial buildings, workshops, ships etc. suitable for wet conditions and outdoor use.

Suitable Flexible Conduit Type	Gas Code	Gas Type Size	Metric Code	Metric Type Size	Pg Code	Pg Type Size
MN..-ML.. 10	BMRY-G1	1/4"	BMRY-M1	M12x1,5	BMRY-P2	Pg 9
MN..-ML.. 13	BMRY-G2	3/8"	BMRY-M2	M16x1,5	BMRY-P3	Pg 11
MN..-ML.. 16	BMRY-G3	1/2"	BMRY-M3	M20x1,5	BMRY-P4/P5	Pg13,5/Pg16
MN..-ML.. 21	BMRY-G4	3/4"	BMRY-M4	M25x1,5	BMRY-P6	Pg 21
MN..-ML.. 26	BMRY-G5	1"	BMRY-M5	M32x1,5	BMRY-P7	Pg 29
MN..-ML..35	BMRY-G6	1 1/4"	BMRY-M6	M40x1,5	BMRY-P8	Pg 36
MN..-ML.. 40	BMRY-G7	1 1/2"	BMRY-M7	M50x1,5	BMRY-P9	Pg 42
MN..-ML.. 52	BMRY-G8	2"	BMRY-M8	M63x1,5	BMRY-P10	Pg 48
MN..-ML.. 63	BMRY-G9	2 1/2"	BMRY-M9	M75x1,5	---	---
MN..-ML.. 78	BMRY-G10	3"	BMRY-M10	M80x1,5	---	---
MN..-ML.. 102	BMRY-G11	4"	BMRY-M11	M90x1,5	---	---

EXTERNAL TYPE STRAIGHT THREAD METAL CONNECTOR / FEMALE TYPE

IP 65

CE PG EAC



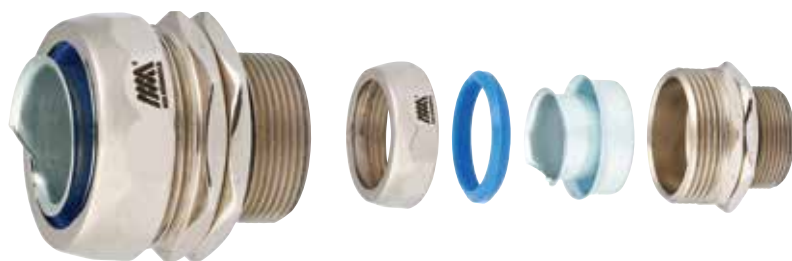
- Certified by CE, GOST-R and EAC.
- Working temperature -40°C / +105°C.
- Made of Brass with a nickel coating over it.
- **NPT** thread type, any desired size and thread size available upon request.
- Can also be produced in metal with electro-galvanized coating.
- Especially used in construction of industrial buildings, workshops, ships, etc. suitable for wet conditions and outdoor use.

Suitable Flexible Conduit Type	Gas Code	Gas Type Size	Metric Code	Metric Type Size	Pg Code	Pg Type Size
MN..-ML.. 10	BFRY-G1	1/4"	BFRY-M1	M12x1,5	BFRY-P2	Pg 9
MN..-ML.. 13	BFRY-G2	3/8"	BFRY-M2	M16x1,5	BFRY-P3	Pg 11
MN..-ML.. 16	BFRY-G3	1/2"	BFRY-M3	M20x1,5	BFRY-P4/P5	Pg13,5/Pg16
MN..-ML.. 21	BFRY-G4	3/4"	BFRY-M4	M25x1,5	BFRY-P6	Pg 21
MN..-ML.. 26	BFRY-G5	1"	BFRY-M5	M32x1,5	BFRY-P7	Pg 29
MN..-ML..35	BFRY-G6	1 1/4"	BFRY-M6	M40x1,5	BFRY-P8	Pg 36
MN..-ML.. 40	BFRY-G7	1 1/2"	BFRY-M7	M50x1,5	BFRY-P9	Pg 42
MN..-ML.. 52	BFRY-G8	2"	BFRY-M8	M63x1,5	BFRY-P10	Pg 48
MN..-ML.. 63	BFRY-G9	2 1/2"	BFRY-M9	M75x1,5	---	---
MN..-ML.. 78	BFRY-G10	3"	BFRY-M10	M80x1,5	---	---
MN..-ML.. 102	BFRY-G11	4"	BFRY-M11	M90x1,5	---	---

EXTERNAL TYPE SWIVEL THREAD METAL CONNECTOR / MALE TYPE

IP 65

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Working temperature -40°C / +105°C.
- Made of Brass with a nickel coating over it.
- Plastic sleeve inside the connector protects the cable against wearing out.
- Protection level up to IP-68 when used with a suitable gasket (O-ring).
- NPT thread type, special sizes and thread sizes are available upon request.
- Especially used in construction of industrial buildings, workshops, ships, etc. suitable for wet conditions and outdoor use.

Suitable Flexible Conduit Type	Gas Code	Gas Type Size	Metric Code	Metric Type Size	Pg Code	Pg Type Size
MN..-ML.. 10	DMRY-G1	1/4"	DMRY-M1	M12x1,5	DMRY-P2	Pg 9
MN..-ML.. 13	DMRY-G2	3/8"	DMRY-M2	M16x1,5	DMRY-P3	Pg 11
MN..-ML.. 16	DMRY-G3	1/2"	DMRY-M3	M20x1,5	DMRY-P4/P5	Pg13,5/Pg16
MN..-ML.. 21	DMRY-G4	3/4"	DMRY-M4	M25x1,5	DMRY-P6	Pg 21
MN..-ML.. 26	DMRY-G5	1"	DMRY-M5	M32x1,5	DMRY-P7	Pg 29
MN..-ML..35	DMRY-G6	1 1/4"	DMRY-M6	M40x1,5	DMRY-P8	Pg 36
MN..-ML.. 40	DMRY-G7	1 1/2"	DMRY-M7	M50x1,5	DMRY-P9	Pg 42
MN..-ML.. 52	DMRY-G8	2"	DMRY-M8	M63x1,5	DMRY-P10	Pg 48
MN..-ML.. 63	DMRY-G9	2 1/2"	DMRY-M9	M75x1,5	---	---
MN..-ML.. 78	DMRY-G10	3"	DMRY-M10	M80x1,5	---	---
MN..-ML.. 102	DMRY-G11	4"	DMRY-M11	M90x1,5	---	---

EXTERNAL TYPE SWIVEL THREAD METAL CONNECTOR / FEMALE TYPE

IP 65

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Working temperature -40°C / +105°C.
- Made of Brass with a nickel coating over it.
- NPT thread type, special sizes and thread sizes are available upon request.
- Especially used in construction of industrial buildings, workshops, ships, etc. suitable for wet conditions and outdoor use.

Suitable Flexible Conduit Type	Gas Code	Gas Type Size	Metric Code	Metric Type Size	Pg Code	Pg Type Size
MN..-ML.. 10	DFRY-G1	1/4"	DFRY-M1	M12x1,5	DFRY-P2	Pg 9
MN..-ML.. 13	DFRY-G2	3/8"	DFRY-M2	M16x1,5	DFRY-P3	Pg 11
MN..-ML.. 16	DFRY-G3	1/2"	DFRY-M3	M20x1,5	DFRY-P4/P5	Pg13,5/Pg16
MN..-ML.. 21	DFRY-G4	3/4"	DFRY-M4	M25x1,5	DFRY-P6	Pg 21
MN..-ML.. 26	DFRY-G5	1"	DFRY-M5	M32x1,5	DFRY-P7	Pg 29
MN..-ML..35	DFRY-G6	1 1/4"	DFRY-M6	M40x1,5	DFRY-P8	Pg 36
MN..-ML.. 40	DFRY-G7	1 1/2"	DFRY-M7	M50x1,5	DFRY-P9	Pg 42
MN..-ML.. 52	DFRY-G8	2"	DFRY-M8	M63x1,5	DFRY-P10	Pg 48
MN..-ML.. 63	DFRY-G9	2 1/2"	DFRY-M9	M75x1,5	---	---
MN..-ML.. 78	DFRY-G10	3"	DFRY-M10	M80x1,5	---	---
MN..-ML.. 102	DFRY-G11	4"	DFRY-M11	M90x1,5	---	---

SILOK TYPE CABLE GLANDS

IP 68

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Made of Brass, with a nickel coating over it.
- Protection level up to **IP-68** when used with a suitable seal (O-ring).
- As attached to a flexible conduit serves as a cable connector thanks to the inside gasket.
- Generally used together with a connector protective cap and a grounding component (see page 56).
- The hole diameters specified in the lists are given adding ~2 mm to the thread diameters.
- Swivel threaded, female type featured of this type glands can also be manufactured.
- Besides the standard below-specified measurements special sizes and thread sizes can be manufactured if requested.
- Due to its double sealing the product is especially used in construction of industrial facilities and is suitable for use in wet and dusty conditions.

GAS THREAD TYPE

Gas Code	Suitable Flex. Cond. Type	Gas Type Size	Clamping Range (mm)	Hole Dia. (mm)	Nut Code
SLK-G1.G1	M..-10	1/4"	4÷8	15,2	KS-00
SLK-G2.G2	M..-13	3/8"	5÷10	18,7	KS-G0
SLK-G3.G3	M..-16	1/2"	6÷12	23,0	KS-G1
SLK-G4.G4	M..-21	3/4"	13÷18	28,4	KS-G2
SLK-G5.G5	M..-26	1"	18÷25	35,3	KS-G3
SLK-G6.G6	M..-35	1 1/4"	22÷32	43,9	KS-G4
SLK-G7.G7	M..-40	1 1/2"	30÷38	49,8	KS-G5
SLK-G8.G8	M..-52	2"	34÷44	61,6	KS-G6
SLK-G9.G9	M..-63	2 1/2"	48÷61	77,2	KS-G7
SLK-G10.G10	M..-75	3"	56÷72	90,0	KS-G8

NPT THREAD TYPE

NPT Code	Suitable Flex. Cond. Type	NPT Type Size	Clamping Range (mm)	Hole Dia. (mm)	Nut Code
SLK-G1.N1	M..-10	1/4"	4÷8	15,8	KS-00
SLK-G2.N2	M..-13	3/8"	5÷10	19,2	KS-N0
SLK-G3.N3	M..-16	1/2"	6÷12	23,4	KS-N1
SLK-G4.N4	M..-21	3/4"	13÷18	28,7	KS-N2
SLK-G5.N5	M..-26	1"	18÷25	35,5	KS-N3
SLK-G6.N6	M..-35	1 1/4"	22÷32	44,2	KS-N4
SLK-G7.N7	M..-40	1 1/2"	30÷38	50,0	KS-N5
SLK-G8.N8	M..-52	2"	34÷44	62,5	KS-N6
SLK-G9.N9	M..-63	2 1/2"	48÷61	75,1	KS-N7
SLK-G10.N10	M..-75	3"	56÷72	88,8	KS-N8

METRIC THREAD TYPE

Metric Code	Suitable Flex. Cond. Type	Metric Type Size	Clamping Range (mm)	Hole Dia. (mm)	Nut Code
SLK-G1.M1	M..-10	M12	4÷8	14,2	KS-M1
SLK-G2.M2	M..-13	M16	5÷10	18,2	KS-M2
SLK-G3.M3	M..-16	M20	6÷12	22,2	KS-M3
SLK-G4.M4	M..-21	M25	13÷18	27,2	KS-M4
SLK-G5.M5	M..-26	M32	18÷25	34,2	KS-M5
SLK-G6.M6	M..-35	M40	22÷32	42,2	KS-M6
SLK-G7.M7	M..-40	M50	30÷38	52,2	KS-M7
SLK-G8.M8	M..-52	M63	34÷44	65,2	KS-M8
SLK-G9.M9	M..-63	M72	48÷61	74,2	KS-M9

Pg THREAD TYPE

Pg Code	Suitable Flex. Cond. Type	Pg Type Size	Clamping Range (mm)	Hole Dia. (mm)	Nut Code
SLK-G1.P2	M..-10	Pg 9	4÷8	17,2	KS-P2
SLK-G2.P3	M..-13	Pg 11	5÷10	20,6	KS-P3
SLK-G3.P4	M..-16	Pg 13,5	6÷12	22,4	KS-P4
SLK-G3.P5	M..-16	Pg 16	6÷12	24,5	KS-P5
SLK-G4.P6	M..-21	Pg 21	13÷18	30,3	KS-P6
SLK-G5.P7	M..-26	Pg 29	18÷25	39,0	KS-P7
SLK-G6.P8	M..-35	Pg 36	22÷32	49,0	KS-P8
SLK-G7.P9	M..-40	Pg 42	30÷38	56,0	KS-P9
SLK-G8.P10	M..-52	Pg 48	34÷44	61,3	KS-P10

LIQUID-TIGHT MALE TYPE CONNECTOR / ZAMAK

UL EAC CE



- Certified by UL, GOST-R, EAC, CE.
- Made of Zamak (Zinc die-cast).
- Has a steel nut mounted to it.
- Especially used outdoors, in liquid-tight types of conduits.

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	NPT Type Size	Quantity per Package (pcs)	Package Weight (kg)
MF-500	M...-13	SLT-038I	3/8"	50	2,80
MF-501	M...-16	SLT-050I	1/2"	50	3,20
MF-502	M...-21	SLT-075I	3/4"	50	4,00
MF-503	M...-26	SLT-100I	1"	40	4,80
MF-504	M...-35	SLT-125I	1 1/4"	20	4,40
MF-505	M...-40	SLT-150I	1 1/2"	20	5,00
MF-506	M...-52	SLT-200I	2"	10	3,40

NOTE: Screw type fittings are available up to 4 ".

LIQUID-TIGHT MALE TYPE CONNECTOR / STEEL

EAC CE



- Certified by GOST-R, EAC, CE.
- Made of Galvanized Steel.
- Has a steel nut mounted to it.
- Especially used outdoors, in liquid-tight types of conduits.

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	NPT Type Size	Quantity per Package (pcs)	Package Weight (kg)
MC-500	M...-13	SLT-038SI	3/8"	50	2,80
MC-501	M...-16	SLT-050SI	1/2"	50	3,20
MC-502	M...-21	SLT-075SI	3/4"	50	4,00
MC-503	M...-26	SLT-100SI	1"	40	4,80
MC-504	M...-35	SLT-125SI	1 1/4"	20	4,40
MC-505	M...-40	SLT-150SI	1 1/2"	20	5,00
MC-506	M...-52	SLT-200SI	2"	10	3,40

LIQUID-TIGHT GROUNDED MALE TYPE CONNECTOR / CAST IRON

EAC CE



- Certified by GOST-R, EAC, CE.
- Made of Cast Iron.
- Has a steel nut and a grounding component mounted to it.
- Especially used in grounded connections of liquid-tight types of conduits.

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	NPT Type Size	Quantity per Package (pcs)	Package Weight (kg)
MD-510	M...-13	GSLT-038I	3/8"	50	3,20
MD-511	M...-16	GSLT-050I	1/2"	50	3,60
MD-512	M...-21	GSLT-075I	3/4"	50	4,60
MD-513	M...-26	GSLT-100I	1"	40	5,30
MD-514	M...-35	GSLT-125I	1 1/4"	20	4,90
MD-515	M...-40	GSLT-150I	1 1/2"	20	5,60
MD-516	M...-52	GSLT-200I	2"	10	3,80

90° LIQUID-TIGHT MALE TYPE CONNECTOR / ZAMAK

UL EAC CE



- Certified by UL, GOST-R, EAC, CE.
- Made of Zamak (Zinc die-cast).
- Has a steel nut mounted to it.
- Especially used in 90° connections of liquid-tight types of conduits.

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	NPT Type Size	Quantity per Package (pcs)	Package Weight (kg)
MF-540	M...-13	ALT-038I	3/8"	40	3,20
MF-541	M...-16	ALT-050I	1/2"	40	3,40
MF-542	M...-21	ALT-075I	3/4"	25	3,00
MF-543	M...-26	ALT-100I	1"	20	3,80
MF-544	M...-35	ALT-125I	1 1/4"	10	3,40
MF-545	M...-40	ALT-150I	1 1/2"	10	4,40
MF-546	M...-52	ALT-200I	2"	5	3,20

NOTE: Screw type fittings are available up to 4 ".

LIQUID-TIGHT MALE TYPE CONNECTOR / CAST IRON

UL EAC CE



- Certified by UL, GOST-R, EAC, CE.
- Made of Cast Iron.
- Has a steel nut mounted to it.
- Especially used outdoors, in liquid-tight types of conduits.

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	NPT Type Size	Quantity per Package (pcs)	Package Weight (kg)
MD-500	M...-13	SLT-038MI	3/8"	50	3,00
MD-501	M...-16	SLT-050MI	1/2"	50	3,40
MD-502	M...-21	SLT-075MI	3/4"	50	4,40
MD-503	M...-26	SLT-100MI	1"	40	5,10
MD-504	M...-35	SLT-125MI	1 1/4"	20	4,60
MD-505	M...-40	SLT-150MI	1 1/2"	20	5,30
MD-506	M...-52	SLT-200MI	2"	10	3,60

90° LIQUID-TIGHT GROUNDED MALE TYPE CONNECTOR / CAST IRON

EAC CE



- Certified by GOST-R, EAC, CE.
- Made of Cast Iron.
- Has a steel nut and a grounding component mounted to it.
- Especially used in grounded 90° connections of liquid-tight types of conduits.

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	NPT Type Size	Quantity per Package (pcs)	Package Weight (kg)
MD-520	M...-13	GALT-03890I	3/8"	40	4,10
MD-521	M...-16	GALT-05090I	1/2"	40	4,30
MD-522	M...-21	GALT-07590I	3/4"	25	3,70
MD-523	M...-26	GALT-10090I	1"	20	4,80
MD-524	M...-35	GALT-12590I	1 1/4"	10	3,70
MD-525	M...-40	GALT-15090I	1 1/2"	10	4,30
MD-526	M...-52	GALT-20090I	2"	5	3,20

NPT THREAD MALE TYPE CONNECTOR / ZAMAK

IP67

CE ENEC ETL



- Made of Zamak (Zinc die-cast).
- Has a steel nut mounted to it.
- Used both indoors and outdoors, to connect flexible steel conduits to equipment.

(*)

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	NPT Type Size	Quantity per Package (pcs)	Package Weight (kg)
GMR-G2	M...-13	DPJ-038	1/2"	100	3,20
GMR-G3	M...-16	DPJ-050	1/2"	50	3,34
GMR-G4	M...-21	DPJ-075	3/4"	50	4,14
GMR-G5	M...-26	DPJ-100	1"	25	4,02
GMR-G6	M...-35	DPJ-125	1 1/4"	20	3,10
GMR-G7	M...-40	DPJ-150	1 1/2"	10	3,30
GMR-G8	M...-52	DPJ-200	2"	10	4,12
GMR-G9	M...-63	DPJ-250	2 1/2"	5	2,50
GMR-G10	M...-78	DPJ-300	3"	20	15,00
GMR-G11	M...-102	DPJ-400	4"	10	12,20

Pg THREAD MALE TYPE CONNECTOR / ZAMAK

IP67

CE ENEC ETL



- Made of Zamak (Zinc die-cast).
- Has a steel nut mounted to it.
- Used both indoors and outdoors, to connect flexible steel conduits to equipment.

(*)

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	Pg Type Size	Quantity per Package (pcs)	Package Weight (kg)
GMR-P2	M...-10	DPJ-014P	Pg 9	100	3,20
GMR-P3	M...-13	DPJ-038P	Pg 11	100	3,36
GMR-P4	M...-16	DPJ-050P	Pg 13,5	50	4,14
GMR-P5	M...-16	DPJ-050P	Pg 16	50	4,40
GMR-P6	M...-21	DPJ-075P	Pg 21	25	4,02
GMR-P7	M...-26	DPJ-100P	Pg 29	20	3,10
GMR-P8	M...-35	DPJ-125P	Pg 36	10	3,30
GMR-P9	M...-40	DPJ-150P	Pg 42	10	4,12
GMR-P10	M...-52	DPJ-200P	Pg 48	5	2,50

(*) Marked connectors are available up to 6".

45°NPT THREAD MALE TYPE CONNECTOR / ZAMAK

IP67

CE ENEC ETL



- Made of Zamak (Zinc die-cast).
- Has a steel nut mounted to it.
- Used both indoors and outdoors, in 45° connections of flexible steel conduits.

(*)

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	NPT Type Size	Quantity per Package (pcs)	Package Weight (kg)
GMK-G2	M...-13	DNJ-038	1/2"	100	3,30
GMK-G3	M...-16	DNJ-050	1/2"	50	3,40
GMK-G4	M...-21	DNJ-075	3/4"	50	4,40
GMK-G5	M...-26	DNJ-100	1"	20	3,28
GMK-G6	M...-35	DNJ-125	1 1/4"	10	4,20
GMK-G7	M...-40	DNJ-150	1 1/2"	10	5,50
GMK-G8	M...-52	DNJ-200	2"	5	3,06

NPT THREAD FEMALE TYPE CONNECTOR / ZAMAK

IP67

CE ENEC ETL



- Made of Zamak (Zinc die-cast).
- Used both indoors and outdoors, to connect flexible steel conduits to equipment.

(*)

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	NPT Type Size	Quantity per Package (pcs)	Package Weight (kg)
GFR-G2	M...-13	DPN-038	1/2"	100	3,20
GFR-G3	M...-16	DPN-050	1/2"	50	3,34
GFR-G4	M...-21	DPN-075	3/4"	50	4,14
GFR-G5	M...-26	DPN-100	1"	25	4,02
GFR-G6	M...-35	DPN-125	1 1/4"	20	3,10
GFR-G7	M...-40	DPN-150	1 1/2"	10	3,30
GFR-G8	M...-52	DPN-200	2"	10	4,12
GFR-G9	M...-63	DPN-250	2 1/2"	5	2,50
GFR-G10	M...-78	DPN-300	3"	20	15,00
GFR-G11	M...-102	DPN-400	4"	10	12,20

METRIC THREAD MALE TYPE CONNECTOR / ZAMAK

IP67

CE ENEC ETL



- Made of Zamak (Zinc die-cast).
- Has a steel nut mounted to it.
- Used both indoors and outdoors, to connect flexible steel conduits to equipment.

(*)

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	Metric Type Size	Quantity per Package (pcs)	Package Weight (kg)
GMR-M2	M...-13	DPJ-038M	M16x1,5	100	3,20
GMR-M3	M...-16	DPJ-050M	M20x1,5	50	3,34
GMR-M4	M...-21	DPJ-075M	M25x1,5	50	4,14
GMR-M5	M...-26	DPJ-100M	M32x1,5	25	4,02
GMR-M6	M...-35	DPJ-125M	M40x1,5	20	3,10
GMR-M7	M...-40	DPJ-150M	M50x1,5	10	3,30
GMR-M8	M...-52	DPJ-200M	M63x1,5	10	4,12
GMR-M9	M...-63	DPJ-250M	M75x1,5	25	16,00
GMR-M10	M...-78	DPJ-300M	M80x1,5	20	18,00
GMR-M11	M...-102	DPJ-400M	M90x1,5	10	16,00

90°NPT THREAD MALE TYPE CONNECTOR / ZAMAK

IP67

CE ENEC ETL



- Made of Zamak (Zinc die-cast).
- Has a steel nut mounted to it.
- Used both indoors and outdoors, in 90° connections of flexible steel conduits.

(*)

MSM Code	Suitable Flex. Cond. Type	Manufacturer's Code	NPT Type Size	Quantity per Package (pcs)	Package Weight (kg)
GMD-G2	M...-13	DWJ-038	1/2"	100	3,30
GMD-G3	M...-16	DWJ-050	1/2"	50	3,40
GMD-G4	M...-21	DWJ-075	3/4"	50	4,40
GMD-G5	M...-26	DWJ-100	1"	20	3,28
GMD-G6	M...-35	DWJ-125	1 1/4"	10	4,20
GMD-G7	M...-40	DWJ-150	1 1/2"	10	5,50
GMD-G8	M...-52	DWJ-200	2"	5	3,06

SCREW TYPE CONNECTOR / ZAMAK

UL EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (zinc die-cast).
- Used to connect flexible steel conduits to equipment.

⊕

MSM Code	Suitable Flex. Conduit Size	Manufacturer's Code	Gas Type Size	Quantity per Package (pcs)	Package Weight (kg)
MS-501	M...-16	SSC-050	1/2"	100	2,60
MS-502	M...-21	SSC-075	3/4"	100	4,00
MS-503	M...-26	SSC-100	1"	50	3,40
MS-504	M...-35	SSC-125	1 1/4"	25	2,60
MS-505	M...-40	SSC-150	1 1/2"	25	3,25
MS-506	M...-52	SSC-200	2"	20	4,00

90° SCREW TYPE CONNECTOR / ZAMAK

UL EAC CE



- Certified by UL, GOST-R, EAC and CE.
- Made of Zamak (zinc die-cast).
- Used to connect flexible steel conduits to equipment at a 90° angle.

⊕

MSM Code	Suitable Flex. Conduit Size	Manufacturer's Code	Gas Type Size	Quantity per Package (pcs)	Package Weight (kg)
MS-541	M...-16	ASC-050	1/2"	50	3,00
MS-542	M...-21	ASC-075	3/4"	50	4,60
MS-543	M...-26	ASC-100	1"	25	3,80
MS-544	M...-35	ASC-125	1 1/4"	50	10,0
MS-545	M...-40	ASC-150	1 1/2"	20	10,0
MS-546	M...-52	ASC-200	2"	20	10,0

FLEXIBLE CONDUIT COUPLING / ZAMAK

EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Zamak (zinc die-cast).
- Used to connect flexible steel conduits.

MSM Code	Suitable Flex. Conduit Size	Manufacturer's Code	Gas Type Size	Quantity per Package (pcs)	Package Weight (kg)
MS-511	M...-16	XK-050	1/2"	100	3,00
MS-512	M...-21	XK-075	3/4"	100	3,40
MS-513	M...-26	XK-100	1"	50	2,40

COMPRESSION TYPE CONNECTOR / ZAMAK

EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Zamak (zinc die-cast).
- Used to connect flexible steel conduit to equipment.

MSM Code	Suitable Flex. Conduit Size	Manufacturer's Code	Gas Type Size	Quantity per Package (pcs)	Package Weight (kg)
MS-551	M...-16	XC-050	1/2"	100	3,00
MS-552	M...-21	XC-075	3/4"	100	3,40
MS-553	M...-26	XC-100	1"	50	2,40

FLEXIBLE STEEL CONDUIT COUPLING / WITH FERRULE TYPE

EAC CE



- Certified by GOST-R, EAC and CE.
- Made of Zamak (zinc die-cast).
- Used in tightened connection of steel flexible conduits with each other.

MSM Code	Manufacturer's Code	Size	Suitable Flex. Conduit Size	Quantity per Package (pcs)
MS-591	DGJ-050	1/2"	M...-16	100
MS-592	DGJ-075	3/4"	M...-21	50
MS-593	DGJ-100	1"	M...-26	25
MS-594	DGJ-125	1 1/4"	M...-35	20
MS-595	DGJ-150	1 1/2"	M...-40	10
MS-596	DGJ-200	2"	M...-52	10
MS-597	DGJ-250	2 1/2"	M...-63	25
MS-598	DGJ-300	3"	M...-78	20
MS-599	DGJ-400	4"	M...-102	10

METAL FERRULE SLOTTED/ STRAIGHT THREAD TYPE (ENDING)

EAC CE



- Certified by GOST-R and EAC.
- Made of Galvanized Steel.
- Used in endings of flexible steel conduits with steel flexible conduit connection to connectors.

MSM Code Slotted Type	Manufacturer's Code Slotted Type	MSM Code Straight Thread Type	Manufacturer's Code Straight Thread Type	Size	Suitable Flex. Conduit Size
MS-560	MF-038	MS-570	LXYQ-038	3/8"	M...-13
MS-561	MF-050	MS-571	LXYQ-050	1/2"	M...-16
MS-562	MF-075	MS-572	LXYQ-075	3/4"	M...-21
MS-563	MF-100	MS-573	LXYQ-100	1"	M...-26
MS-564	MF-125	MS-574	LXYQ-125	1 1/4"	M...-35
MS-565	MF-150	MS-575	LXYQ-150	1 1/2"	M...-40
MS-566	MF-200	MS-576	LXYQ-200	2"	M...-52
MS-567	MF-250	MS-577	LXYQ-250	2 1/2"	M...-63
MS-568	MF-300	MS-578	LXYQ-300	3"	M...-78
MS-569	MF-400	MS-579	LXYQ-400	4"	M...-102
MS-570.1	MF-500	MS-580.1	LXYQ-500	5"	---
MS-570.2	MF-600	MS-580.2	LXYQ-600	6"	---

⊕ Screw type fittings are available up to 4 ".

PVC COATED FLEXIBLE STEEL CONDUIT

CE RoHS BSEN



- Flexible metal conduit made of galvanized steel, PVC insulation coated.
- The PVC upper coating is dilute acid and oil resistant.
- Especially used indoors, in social building, business centers, workshops and high-rise towers.

(BLACK) -15°C / +70°C

MSM Code	Inside Diameter (mm)	Outside Diameter (mm)	Meters Per Piece
FSU-10	6,8	10,0	50
FSU-12	10,2	14,0	50
FSU-16	13,0	17,0	50
FSU-20	16,9	21,5	50
FSU-25	21,1	26,0	50
FSU-32	28,1	34,0	25
FSU-40	37,6	44,5	25
FSU-50	48,4	55,0	25
FSU-63	57,5	64,5	10
FSU-75	70,0	79,0	10

LIQUID-TIGHT FLEXIBLE STEEL CONDUIT

CE RoHS BSEN



- The inside surface is made galvanized steel, the outside part is PVC.
- Resistant to oils, acids and Sun light (UV).
- Due to its high temperatures resistance it is especially used in construction of industrial facilities, workshops, ships etc. suitable for wet conditions and outside use.

(BLACK) -20°C / +105°C

MSM Code	Inside Diameter (mm)	Outside Diameter (mm)	Meters Per Piece
LTP-10	7,0	11,8	50
LTP-12	10,0	14,2	50
LTP-16	12,6	17,8	50
LTP-20	16,0	21,1	50
LTP-25	21,0	26,4	50
LTP-32	26,5	33,1	25
LTP-40	35,4	41,8	25
LTP-50	40,4	47,9	25
LTP-63	51,6	59,7	10

INDOOR TYPE STRAIGHT THREAD CONNECTOR

IP 54

CE RoHS BSEN



- Made of Brass with a nickel coating over it.
- Female thread type is available upon request.
- As it is not supplied with a gasket it is only suitable with FSU types of conduits for indoor use.

Metric Code	Metric Type Size	Pg Code	Pg Type Size	Suitable Flex. Conduit Size
10-M12-M	M12x1,5	10-Pg7-M	Pg 7	F... - Ø10
12-M16-M	M16x1,5	12-Pg9-M	Pg 9	F... - Ø12
16-M16-M	M16x1,5	16-Pg11-M	Pg 11	F... - Ø16
16-M20-M	M20x1,5	---	---	F... - Ø16
20-M20-M	M20x1,5	20-Pg16-M	Pg 16	F... - Ø20
25-M25-M	M25x1,5	25-Pg21-M	Pg 21	F... - Ø25
32-M32-M	M32x1,5	32-Pg29-M	Pg 29	F... - Ø32
40-M40-M	M40x1,5	40-Pg36-M	Pg 36	F... - Ø40
50-M50-M	M50x1,5	50-Pg48-M	Pg 48	F... - Ø50
63-M63-M	M63x1,5	---	---	F... - Ø63

OUTDOOR TYPE STRAIGHT THREAD CONNECTOR

IP 65

CE RoHS BSEN



- Made of Brass with a nickel coating over it.
- Liquid-tight due to an inside seal.
- The plastic cover at the end of the connector protects the cable from wearing-out.
- Especially suitable for use in LTP types of conduits for indoor and outdoor use.

Metric Code	Metric Type Size	Pg Code	Pg Type Size	Suitable Flex. Conduit Size
10-M12-C	M12x1,5	10-Pg7-C	Pg 7	LTP... - Ø10
12-M16-C	M16x1,5	12-Pg9-C	Pg 9	LTP... - Ø12
16-M16-C	M16x1,5	16-Pg11-C	Pg 11	LTP... - Ø16
16-M20-C	M20x1,5	---	---	LTP... - Ø16
20-M20-C	M20x1,5	20-Pg16-C	Pg 16	LTP... - Ø20
25-M25-C	M25x1,5	25-Pg21-C	Pg 21	LTP... - Ø25
32-M32-C	M32x1,5	32-Pg29-C	Pg 29	LTP... - Ø32
40-M40-C	M40x1,5	---	---	LTP... - Ø40
50-M50-C	M50x1,5	---	---	LTP... - Ø50
63-M63-C	M63x1,5	---	---	LTP... - Ø63

"E1W" TYPE ARMoured BRASS CABLE GLAND

IP67

CE EAC



- Certified by CE, GOST-R and EAC.
- Conforms to EN 50262 standard; can also be produced from stainless steel.
- Made of Brass (MS-58), nickel coating available upon request.
- Physical properties stated in the table have to be considered with $\pm 5\%$ tolerance.
- The gasket is resistant to temperatures from -40°C to $+80^{\circ}\text{C}$.
- If requested can be produced in any desired size or with a special thread length.

NPT Code	NPT Type Size	Metric Code	Metric Type Size	Pg Code	Pg Type Size	Cable Diameter (mm)				Thread Length (mm)	Corner Diameter Ø (mm)
						Armor Bottom (A)		Armor Top (B)			
						Min	Max	Min	Max		
E1W/12/1/4"	1/4"	E1W/12/M12	M12x1,5	E1W/12/Pg 7	Pg 7	3	6,5	4	9	15	24,5
E1W/16/3/8"	3/8"	E1W/16/M16	M16x1,5	E1W/16/Pg 9	Pg 9	4	9	11	13,5	15	24,5
E1W/20s/1/2"	1/2"	E1W/20s/M20	M20x1,5	E1W/20s/Pg 11	Pg 11	8	11	11	15	15	28,5
E1W/20/1/2"	1/2"	E1W/20/M20	M20x1,5	E1W/20/Pg 13/16	Pg 13,5/16	8	13	15	20	15	33,5
E1W/25/3/4"	3/4"	E1W/25/M25	M25x1,5	E1W/25/Pg 21	Pg 21	13	19	20	27	18	40,5
E1W/32/1"	1"	E1W/32/M32	M32x1,5	E1W/32/Pg 29	Pg 29	18	26	26	32	18	51,5
E1W/40/1 1/4"	1 1/4"	E1W/40/M40	M40x1,5	E1W/40/Pg 36	Pg 36	25	32	33	40	18	61,5
E1W/50s/1 1/2"	1 1/2"	E1W/50s/M50	M50x1,5	E1W/50s/Pg 42	Pg 42	30	37	36	45	18	65,5
E1W/50/2"	2"	E1W/50/M50	M50x1,5	E1W/50/Pg 48	Pg 48	34	44	43	54	20	77,5
E1W/63s/2"	2"	E1W/63s/M63	M63x1,5	-	-	40	50	49	59	20	84,0
E1W/63/2 1/2"	2 1/2"	E1W/63/M63	M63x1,5	-	-	47	54	58	64	22	88,5
E1W/75s/2 1/2"	2 1/2"	E1W/75s/M75	M75x1,5	-	-	49	59	59	65	22	88,5
E1W/75/3"	3"	E1W/75/M75	M75x1,5	-	-	59	65	65	74	22	100,0

"CW" TYPE UNARMoured BRASS CABLE GLAND

IP67

CE EAC



- Certified by CE, GOST-R and EAC.
- Conforms to EN 50262 standard; can also be produced from stainless steel.
- Made of Brass (MS-58), nickel coating available upon request.
- Physical properties stated in the table have to be considered with $\pm 5\%$ tolerance.
- The gasket is resistant to temperatures from -40°C to $+80^{\circ}\text{C}$.
- If requested can be produced in any desired size or with a special thread length.

NPT Code	NPT Type Size	Metric Code	Metric Type Size	Pg Code	Pg Type Size	Cable Diameter (mm)		Thread Length (mm)	Corner Diameter Ø (mm)
						Min	Max		
CW/16/3/8"	3/8"	CW/16/M16	M16x1,5	CW/16/Pg 11	Pg 11	5	10	15	20,0
CW/20s/1/2"	1/2"	CW/20s/M20	M20x1,5	CW/20s/Pg 13,5	Pg 13,5	5	10	15	20,0
CW/20/1/2"	1/2"	CW/20/M20	M20x1,5	CW/20/Pg 16	Pg 16	10	14	15	24,0
CW/25/3/4"	3/4"	CW/25/M25	M25x1,5	CW/25/Pg 21	Pg 21	13	18	15	30,0
CW/32/1"	1"	CW/32/M32	M32x1,5	CW/32/Pg 29	Pg 29	18	25	15	40,0
CW/40/1 1/4"	1 1/4"	CW/40/M40	M40x1,5	CW/40/Pg 36	Pg 36	22	32	15	50,0
CW/50s/1 1/2"	1 1/2"	CW/50s/M50	M50x1,5	CW/50s/Pg 36	Pg 36	22	32	15	50,0
CW/50/1 1/2"	1 1/2"	CW/50/M50	M50x1,5	CW/50/Pg 42	Pg 42	30	38	15	60,0
CW/63s/2"	2"	CW/63s/M63	M63x1,5	CW/63s/Pg 48	Pg 48	30	38	15	60,0
CW/63/2 1/2"	2"	CW/63/M63	M63x1,5	-	-	34	44	15	65,0
CW/75/3"	2 1/2"	CW/75/M75	M75x1,5	-	-	48	61	15	92,0
CW/90/3"	3"	CW/80/M80	M80x1,5	-	-	56	72	15	102,0

WATERPROOF TYPE BRASS CABLE GLAND

IP68

CE EAC



- Certified by CE, GOST-R and EAC.
- Conforms to EN 50262 standard.
- Can also be produced from Stainless Steel.
- Has a neoprene seal and a polyamide (PA6) clip.
- The seal is resistant to temperatures from -40°C to +80°C. Has an O-ring.
- Physical properties stated in the table have to be considered with ±5% tolerance.
- If requested can be produced in any desired size or with a special thread size.
- The hole diameters specified in the lists are given adding ~2 mm to the thread diameters.
- Especially used in industrial environments in panel, motor etc. connections.
- If desired can be used together with a connector protective cap and a grounding component.

GROUNDING COMPONENT

CE EAC



- Certified by CE, GOST-R and EAC.
- Made of Brass, can be produced with a nickel coating if required.
- Especially used as a grounding component mounted to a thread body of connectors.
- Can be delivered already mounted to a connector if requested.

NPT Code	NPT Type Size	Metric Code	Metric Type Size	Pg Code	Pg Type Size
TE-N1	1/4"	TE-M1	M12 x 1,5	TE-P2	Pg 9
TE-N2	3/8"	TE-M2	M16 x 1,5	TE-P3	Pg 11
TE-N3	1/2"	TE-M3	M20 x 1,5	TE-P4/P5	Pg 13,5/16
TE-N4	3/4"	TE-M4	M25 x 1,5	TE-P6	Pg 21
TE-N5	1"	TE-M5	M32 x 1,5	TE-P7	Pg 29
TE-N6	1 1/4"	TE-M6	M40 x 1,5	TE-P8	Pg 36
TE-N7	1 1/2"	TE-M7	M50 x 1,5	TE-P9	Pg 42
TE-N8	2"	---	---	TE-P10	Pg 48
---	---	TE-M8	M63 x 1,5	TE-P11	PQ 55
---	---	---	---	TE-P12	PQ 60
TE-N9	2 1/2"	TE-M9	M75 x 1,5	TE-P13	PQ 70
---	---	TE-M10	M80 x 1,5	---	---
TE-N10	3"	TE-M11	M90 x 1,5	TE-P14	PQ 80
---	---	TE-M12	M100 x 1,5	TE-P15	PQ 90

MSM Code	Thread Size	Cable Dia. (mm)		Hole Dia. (mm)	Thread Length (mm)	Corner Dia. Ø (mm)
		Min	Max			
NPT THREAD						
MKR-N1	1/4"	3	6	15,0	15,0	16,0
MKR-N2	3/8"	4	8	18,6	15,0	19,0
MKR-N3	1/2"	6	12	22,9	15,0	24,0
MKR-N4	3/4"	13	18	28,4	18,0	33,5
MKR-N5	1"	18	25	35,0	18,0	44,5
MKR-N6	1 1/4"	22	32	43,6	18,0	56,0
MKR-N7	1 1/2"	30	38	49,3	18,0	61,0
MKR-N8	2"	34	44	61,8	20,0	66,0
METRIC THREAD						
MKR-M1	M12x1,5	3	6	14,0	6,0	15,5
MKR-M2	M16x1,5	4	8	18,0	7,0	19,0
MKR-M3	M20x1,5	6	12	22,0	8,0	24,5
MKR-M4	M25x1,5	10	14	27,0	8,0	26,5
MKR-M5	M32x1,5	13	18	34,0	9,0	33,5
MKR-M6	M40x1,5	18	25	42,0	9,0	44,5
MKR-M7	M50x1,5	22	32	52,0	9,0	55,5
MKR-M8	M63x1,5	34	44	65,0	14,0	69,5
Pg THREAD						
MKR-P1	Pg 7	3	6	14,5	6,0	15,5
MKR-P2	Pg 9	4	8	17,2	7,0	19,0
MKR-P3	Pg 11	5	10	20,6	6,0	22,0
MKR-P4	Pg 13,5	6	12	22,4	7,0	24,5
MKR-P5	Pg 16	10	14	24,5	6,5	26,5
MKR-P6	Pg 21	13	18	30,3	7,0	33,5
MKR-P7	Pg 29	18	25	39,0	8,0	44,5
MKR-P8	Pg 36	22	32	49,0	9,0	55,5
MKR-P9	Pg 42	30	38	56,0	12,0	66,5
MKR-P10	Pg 48	34	44	61,3	14,0	69,5

CONNECTOR PROTECTIVE CAP

CE EAC



- Certified by CE, GOST-R and EAC.
- Made of EPDM rubber.
- As a cover, it is used to protect connectors from external factors.
- Sealing washer suitable for cable gland sizes is available upon request.

NPT Code	NPT Type Size	Metric Code	Metric Type Size	Pg Code	Pg Type Size
PRK-N1	1/4"	PRK-M1	M12 x 1,5	PRK-P1	Pg 7
PRK-N2	3/8"	PRK-M2	M16 x 1,5	PRK-P2	Pg 9
PRK-N3	1/2"	PRK-M3	M20 x 1,5	PRK-P3	Pg 11
PRK-N4	3/4"	PRK-M4	M25 x 1,5	PRK-P4	Pg 13,5
PRK-N5	1"	PRK-M5	M32 x 1,5	PRK-P5	Pg 16
PRK-N6	1 1/4"	PRK-M6	M40 x 1,5	PRK-P6	Pg 21
PRK-N7	1 1/2"	PRK-M7	M50 x 1,5	PRK-P7	Pg 29
PRK-N8	2"	PRK-M8	M63 x 1,5	PRK-P8	Pg 36
---	---	PRK-M9	M75 x 1,5	PRK-P9	Pg 42
---	---	PRK-M10	M90 x 1,5	PRK-P10	Pg 48

* When choosing a cover for metal cable connectors please pay attention to their corner diameters.

NORMAL BRASS CABLE GLAND

IP 55

CE PG ENEC



- Made of Brass (MS-58).
- Nickel coating available upon request.
- Covered gasket is resistant to temperatures from -40°C to +120°C.
- Can be produced with a long and GAS type of thread if requested.
- Especially used indoors, in panel connections.

Pg Code	Pg Type Size	Clamping Range (mm)	Hole Dia. (mm)	Metric Code	Metric Type Size	Clamping Range (mm)	Hole Dia. (mm)
NKR-P1	Pg 7	3÷6	14,5	NKR-M1	M12x1,5	3÷6	14,0
NKR-P2	Pg 9	6÷9	17,2	NKR-M2	M16x1,5	6÷9	18,0
NKR-P3	Pg 11	6÷10	20,6	NKR-M3	M20x1,5	8÷12	22,0
NKR-P4	Pg 13,5	8÷12	22,4	NKR-M4	M25x1,5	14÷19	27,0
NKR-P5	Pg 16	10÷14	24,5	NKR-M5	M32x1,5	18÷24	34,0
NKR-P6	Pg 21	14÷19	30,3	NKR-M6	M40x1,5	29÷35	42,0
NKR-P7	Pg 29	23÷28	39,0	NKR-M7	M50x1,5	35÷41	52,0
NKR-P8	Pg 36	28÷35	49,0	NKR-M8	M63x1,5	43÷49	65,0
NKR-P9	Pg 42	35÷41	56,0	NKR-M9	M75x1,5	55÷62	77,0
NKR-P10	Pg 48	39÷45	61,3	NKR-M10	M90x1,5	64÷72	92,0

BRASS CABLE GLAND WITH A CLAMP

IP 55

CE PG ENEC



- Made of Brass (MS-58).
- Nickel coating available upon request.
- Covered gasket is resistant to temperatures from -40°C to +120°C.
- Fixes cables by means of an adjusting screw.
- Can be produced with a long and GAS type of thread if requested.
- Especially used indoors, in panel connections.

Pg Code	Pg Type Size	Clamping Range (mm)	Hole Dia. (mm)	Metric Code	Metric Type Size	Clamping Range (mm)	Hole Dia. (mm)
KKR-P1	Pg 7	3÷6	14,5	KKR-M1	M12x1,5	3÷6	14,0
KKR-P2	Pg 9	6÷9	17,2	KKR-M2	M16x1,5	6÷9	18,0
KKR-P3	Pg 11	6÷10	20,6	KKR-M3	M20x1,5	8÷12	22,0
KKR-P4	Pg 13,5	8÷12	22,4	KKR-M4	M25x1,5	14÷19	27,0
KKR-P5	Pg 16	10÷14	24,5	KKR-M5	M32x1,5	18÷24	34,0
KKR-P6	Pg 21	14÷19	30,3	KKR-M6	M40x1,5	29÷35	42,0
KKR-P7	Pg 29	23÷28	39,0	KKR-M7	M50x1,5	35÷41	52,0
KKR-P8	Pg 36	28÷35	49,0	KKR-M8	M63x1,5	43÷49	65,0
KKR-P9	Pg 42	35÷41	56,0	KKR-M9	M75x1,5	55÷62	77,0
KKR-P10	Pg 48	39÷45	61,3	KKR-M10	M90x1,5	64÷72	92,0

SPECIAL SIZED BRASS CABLE GLAND

IP 55

PG ENEC CE



- Made of Brass (MS-58).
- Nickel coating available upon request.
- Covered gasket is resistant to temperatures from -40°C to +120°C.
- Can be produced with a long and GAS type of thread if requested.
- Especially used in wet conditions (thanks to a covered gasket) in panel and box connections with low and medium voltage.

Normal Type Code	Clamps Type Code	Size	Clamping Range (mm)	Hole Diameter (mm)
NKR-Ø25	KKR-Ø25	Ø25	18÷24	32,0
NKR-Ø55	KKR-Ø55	Ø55	43÷49	65,0
NKR-Ø60	KKR-Ø60	Ø60	47÷54	70,0
NKR-Ø70	KKR-Ø70	Ø70	55÷62	80,0
NKR-Ø80	KKR-Ø80	Ø80	64÷72	90,0
NKR-Ø90	KKR-Ø90	Ø90	74÷82	100,0
NKR-Ø100	KKR-Ø100	Ø100	85÷92	110,0
NKR-Ø125	KKR-Ø125	Ø125	92÷110	135,0
NKR-Ø150	KKR-Ø150	Ø150	130÷150	160,0



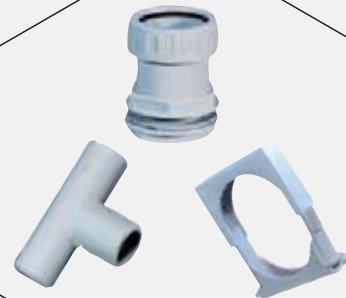
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59 PVC / HALOGEN FREE & PVC THREADED / LIQUIDTIGHT FLEXIBLE CONDUITS

PVC FLEXIBLE CONDUIT / LIGHT SERIES

TS EN 61386-22



Characteristic: Non-flame, Self-extinguishing conduit
Material: PVC based thermoplastic
Compressive Strength: 320 Newtons / Class 2
Impact Strength: 1 kg / 100 mm / -25° / Class 2
Temperature Resistance: -25°C, +60°C / Class 4, 1
Colors: Gray, Black, White, Green, Dark Blue, Blue
Areas of Usage: Installation inside suspended ceiling, brick walls, plasterboard walls.

2241 iPEKboru

MSM Code	MSM Code (with a guide wire)	Nominal Dia. (mm)	Inside Dia. (mm)	Outside Dia. (mm)	Packing (mt)
SC1-016	SC1-116	Ø16	11,2	16	100
SC1-020	SC1-120	Ø20	14,5	20	100
SC1-025	SC1-125	Ø25	18,5	25	50
SC1-032	SC1-132	Ø32	24,5	32	50
SC1-040	SC1-140	Ø40	31,2	40	50
SC1-050	SC1-150	Ø50	39,6	50	25
SC1-063	SC1-163	Ø63	52,5	63	15

COUPLING / IMPORTED

GRAY



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
SBM-16	16	100
SBM-20	20	100
SBM-25	25	100
SBM-40	40	50
SBM-50	50	50

PVC FLEXIBLE THREADED CONDUIT / IMPORTED

GRAY/BLACK



Gray Code	Diameter Ø Ins x Out (mm)	Quantity per Package (mt)
GFE-8	8 x 12,2	30
GFE-10	10 x 14,6	30
GFE-12	12 x 16,2	30
GFE-14	14 x 18,2	30
GFE-16	16 x 20,2	30
GFE-20	20 x 24,2	30
GFE-22	22 x 26,4	30
GFE-25	25 x 29,6	30
GFE-28	28 x 33,0	30
GFE-32	32 x 37,2	30
GFE-35	35 x 40,2	30
GFE-40	40 x 45,3	30
GFE-50	50 x 56,0	30
GFE-60	60 x 66,4	30

Note: Made of PVC raw material and self extinguishing. Used in device connections.

PVC FLEX. THREADED COND. CONN. / IMPORTED

GRAY / BLACK



Pg Code	Thread Type	Gas Code	Thread Type
G X -8/7	Pg 7	G X -8	1/4"
G X -10/9	Pg 9	G X -10	1/4"
G X -12/11	Pg 11	G X -12	3/8"
G X -12/13	Pg 13,5	G X -14	1/2"
G X -14/13	Pg 13,5	G X -16	1/2"
G X -16/13	Pg 13,5	G X -20	3/4"
G X -16/16	Pg 16	G X -22	3/4"
G X -20/21	Pg 21	G X -25	1"
G X -22/21	Pg 21	G X -28	1"
G X -25/29	Pg 29	G X -32	1 1/4"
G X -28/29	Pg 29	G X -35	1 1/4"
G X -32/36	Pg 36	G X -40	1 1/2"
G X -35/36	Pg 36	G X -50	2"

H.FREE FLEXIBLE CONDUIT / LIGHT SERIES

TS EN 61386-22



Characteristic: Halogen-free, installation flexible conduit
Material: Low-Density Polyethylene
Compressive Strength: 320 Newtons / Class 2
Impact Strength: 1 kg / 100 mm / -25° / Class 2
Temperature Resistance: -25°C, +60°C / Class 4, 1
Colors: White, Orange, Gray, Black
Areas of Usage: Installation inside suspended ceiling, brick walls, plasterboard walls.

2241 iPEKboru

MSM Code	MSM Code (Non-flame)	Nominal Dia. (mm)	Inside Dia. (mm)	Outside Dia. (mm)	Packing (mt)
HFS1-016	HFS1-116	Ø16	11,20	16	100
HFS1-020	HFS1-120	Ø20	14,60	20	100
HFS1-025	HFS1-125	Ø25	18,60	25	50
HFS1-032	HFS1-132	Ø32	24,80	32	50
HFS1-040	HFS1-140	Ø40	31,20	40	50
HFS1-050	HFS1-150	Ø50	39,60	50	25

NOTE: Medium and heavy series of flexible conduits are also available.

PLASTIC GUIDE WIRE / IMPORTED

TRANSPARENT



MSM Code	Diameter Ø (mm)	Length (mt)
S4-05	4	5
S4-10	4	10
S4-15	4	15
S4-25	4	25
S4-30	4	30

PVC FLEXIBLE LIQUIDTIGHT TYPE CONDUIT / IMPORTED

GRAY



Gray Code	Thread Type	Diameter Ø I x O (mm)	Quantity per Package (mt)
NML-16	1/2"	16x21	30
NML-20	3/4"	20x26	30
NML-25	1"	25x32	30
NML-32	1 1/4"	32x40	15
NML-40	1 1/2"	40x48	15
NML-51	2"	51x60	15

PVC FLEX. LIQUIDTIGHT COND. CONNECTOR / IMPORTED

IP65



Gray Code	Thread Type	Quantity per Package (pcs)
NMC-G1	1/2"	100
NMC-G2	3/4"	100
NMC-G3	1"	50
NMC-G4	1 1/4"	50
NMC-G5	1 1/2"	20
NMC-G6	2"	10

90° PVC FLEXIBLE LIQUIDTIGHT COND. CONN. / IMPORTED

IP65



Gray Code	Thread Type	Quantity per Package (pcs)
NME-G1	1/2"	100
NME-G2	3/4"	100
NME-G3	1"	50
NME-G4	1 1/4"	50
NME-G5	1 1/2"	20
NME-G6	2"	10

- ☼ - Resists corrosion, oil, acid, water. Ambient temperature -10°~ +70°
- Conduits are made of PVC material, inner surface is smooth and bendable featured.
- Connectors are made of 6/6 Nylon raw material and have metal locking nuts.
- Especially used for equipment connections in indoor and outdoor environments.

PVC RIGID CONDUIT / LIGHT SERIES



TS EN 61386-22

Characteristic	: Non-flame / self-extinguishing conduit
Material	: PVC based Thermoplastic
Compressive Strength	: 320 Newtons / 60 sn / Class 2
Impact Strength	: 1 kg / 100 mm / -25° / Class 2
Temperature Resistance	: -25°C, +60°C / Class 4, 1
Colors	: White, Gray, Black
Areas of Usage	: Installation over and under plaster, inside suspended ceiling



2241

MSM Code	Nominal Diameter (mm)	Inside Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (mt)
SR1-316	Ø16	13,4	16	102
SR1-320	Ø20	17,0	20	102
SR1-325	Ø25	22,1	25	75
SR1-332	Ø32	28,2	32	51
SR1-340	Ø40	36,5	40	51
SR1-350	Ø50	46,4	50	30

PVC RIGID CONDUIT / MIDDLE SERIES



TS EN 61386-22

Characteristic	: Non-flame / self-extinguishing conduit
Material	: PVC based Thermoplastic
Compressive Strength	: 750 Newtons / 60 sn / Class 3
Impact Strength	: 1 kg / 100 mm / -25° / Class 2
Temperature Resistance	: -25°C, +60°C / Class 4, 1
Colors	: White, Gray, Black
Areas of Usage	: Installation over and under plaster, inside screed concrete



3241

MSM Code	Nominal Diameter (mm)	Inside Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (mt)
SR2-316	Ø16	12,8	16	102
SR2-320	Ø20	16,6	20	102
SR2-325	Ø25	21,0	25	75
SR2-332	Ø32	27,5	32	51
SR2-340	Ø40	35,8	40	51
SR2-350	Ø50	45,7	50	30

PVC RIGID CONDUIT / HEAVY SERIES



TS EN 61386-22

Characteristic	: Non-flame / self-extinguishing conduit
Material	: PVC based Thermoplastic
Compressive Strength	: 1250 Newtons / 60 sn / Class 4
Impact Strength	: 2 kg / 100 mm / -25° / Class 3
Temperature Resistance	: -25°C, +60°C / Class 4, 1
Colors	: White, Gray, Black
Areas of Usage	: Installation inside concrete, outside and underground



4341

MSM Code	Nominal Diameter (mm)	Inside Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (mt)
SR3-316	Ø16	11,9	16	102
SR3-320	Ø20	15,7	20	102
SR3-325	Ø25	20,2	25	75
SR3-332	Ø32	26,2	32	51
SR3-340	Ø40	34,5	40	51
SR3-350	Ø50	44,2	50	30

PVC COUPLING

GRAY / IP 40



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
GSU-16	16	100
GSU-20	20	100
GSU-25	25	100
GSU-32	32	50

PVC 90° ELBOW

GRAY / IP 40



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
CRS-16	16	200
CRS-20	20	100
CRS-25	25	50
CRS-32	32	25

PVC SCREW DOWEL STRAP

GRAY



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
CT-16	16	100
CT-20	20	100
CT-25	25	100
CT-32	32	50

PVC CAPPED STRAP

GRAY



MSM Code	Clamping Range (mm)	Quantity per Package (pcs)
C-12	12÷20	100
C-16	14÷22	100
C-25	23÷35	50
C-50	38÷50	50

PVC "T", TYPE COUPLING

GRAY / IP 40



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
TI-16	16	100
TI-20	20	100
TI-25	25	50
TI-32	32	50

PVC 90° ELBOW

GRAY / IP 40



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
CI-16	16	100
CI-20	20	100
CI-25	25	100
CI-32	32	50

PVC RIGID CONDUIT BENDING TOOL

METAL



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
BA-16	16	1
BA-20	20	1
BA-25	25	1

PVC RIGID CONDUIT-BOX ADAPTOR

GRAY / IP 65



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
BS-16	16	50
BS-20	20	50
BS-25	25	50
BS-32	32	25

NOTE: All accessories are compatible with straight conduits of different brands.

HF RIGID CONDUIT / LIGHT SERIES



TS EN 61386-22

Characteristic : Halogen-free rigid conduit
Material : Low Density Polyethylene
Compressive Strength : 320 Newtons / Class 2
Impact Strength : 1 kg / 100 mm / -25° / Class 2
Temperature Resistance : -25°C, +60°C / Class 4, 1
Areas of Usage : Installation over and under plaster, inside suspended ceiling

2241



MSM Code (Flame propagating)	MSM Code (Non-flame propagating)	Nominal Dia. (mm)	Inside Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (mt)
HFD1-016	HFD1-116	Ø16	13,40	16	150
HFD1-020	HFD1-120	Ø20	17,00	20	105
HFD1-025	HFD1-125	Ø25	22,10	25	60
HFD1-032	HFD1-132	Ø32	28,20	32	45
HFD1-040	HFD1-140	Ø40	36,60	40	36
HFD1-050	HFD1-150	Ø50	46,60	50	30

HF RIGID CONDUIT / MIDDLE SERIES



TS EN 61386-22

Characteristic : Halogen-free rigid conduit
Material : Low Density Polyethylene
Compressive Strength : 750 Newtons / Class 3
Impact Strength : 2 kg / 100 mm / -25° / Class 3
Temperature Resistance : -25°C, +60°C / Class 4, 1
Areas of Usage : Installation over and under plaster, inside screed concrete

3341



MSM Code (Flame propagating)	MSM Code (Non-flame propagating)	Nominal Dia. (mm)	Inside Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (mt)
HFD2-016	HFD2-116	Ø16	12,80	16	150
HFD2-020	HFD2-120	Ø20	16,60	20	105
HFD2-025	HFD2-125	Ø25	21,00	25	60
HFD2-032	HFD2-132	Ø32	27,50	32	45
HFD2-040	HFD2-140	Ø40	35,60	40	36
HFD2-050	HFD2-150	Ø50	45,40	50	30

HF RIGID CONDUIT / HEAVY SERIES



TS EN 61386-22

Characteristic : Halogen-free rigid conduit
Material : Low Density Polyethylene
Compressive Strength : 1250 Newtons / Class 4
Impact Strength : 2 kg / 100 mm / -25° / Class 3
Temperature Resistance : -25°C, +60°C / Class 4, 1
Areas of Usage : Installation inside concrete, outside and underground

4341



MSM Code (Flame propagating)	MSM Code (Non-flame propagating)	Nominal Dia. (mm)	Inside Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (mt)
HFD3-016	HFD3-116	Ø16	11,90	16	150
HFD3-020	HFD3-120	Ø20	15,70	20	105
HFD3-025	HFD3-125	Ø25	20,20	25	60
HFD3-032	HFD3-132	Ø32	26,20	32	45
HFD3-040	HFD3-140	Ø40	34,40	40	36
HFD3-050	HFD3-150	Ø50	44,20	50	30

HF COUPLING

WHITE



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
HFG-116	16	100
HFG-120	20	100
HFG-125	25	50
HFG-132	32	50
HFG-140	40	50
HFG-150	50	25

HF 90° ELBOW

WHITE



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
HFG-216	16	100
HFG-220	20	100
HFG-225	25	50
HFG-232	32	50
HFG-240	40	50
HFG-250	50	25

HF SEMICIRCLE STRAP

WHITE



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
HFG-316	16	100
HFG-320	20	100
HFG-325	25	50
HFG-332	32	50
HFG-340	40	50
HFG-350	50	25

HF CAPPED STRAP

WHITE



MSM Code	Diameter Ø (mm)	Quantity per Package (pcs)
HFG-416	16	100
HFG-420	20	100
HFG-425	25	50
HFG-432	32	50
HFG-440	40	50
HFG-450	50	25

HF OVER THE PLASTER BOX+COVER

IP55 / WHITE



MSM Code	Sizes WxLxH (mm)	Quantity per Package (pcs)
HFSB-01	70 x 70 x 33	25
HFSB-02	85 x 85 x 50	25
HFSB-03	110 x 110 x 60	20
HFSB-04	110 x 110 x 70	20

HF OVER THE PLASTER BOX+COVER

IP65 / WHITE



MSM Code	Sizes WxLxH (mm)	Quantity per Package (pcs)
HFSB-11	90 x 50 x 45	50
HFSB-12	100 x 100 x 45	50
HFSB-13	100 x 100 x 60	25
HFSB-14	120 x 120 x 50	15

OPAQUE PLASTIC BOX (WITH CONNECTOR) IP 44



MSM Code	Diameter Ø (mm) x H	Quantity per Pack. (pcs)
400-C1R	Ø70 x 40	60
400-C2R	Ø85 x 45	40
400-C3R	80 x 80 x 40	40

OPAQUE PLASTIC BOX (WITH CONNECTOR) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
400-C4R	100 x 100 x 50	18
400-C4RR	120 x 80 x 50	22
400-C5R	150 x 110 x 70	9
400-C6R	190 x 145 x 80	10
400-C7R	250 x 200 x 90	6
400-C8R	310 x 230 x 130	6

BOX WITH A TRANSPARENT COVER (PLAIN) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
420-C5D	150 x 110 x 70	9
420-C6D	190 x 145 x 80	10
420-C7D	250 x 200 x 90	6
420-C8D	310 x 230 x 130	6

BOX WITH A TRANSPARENT COVER (WITH KNOCKOUTS) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
420-C5K	150 x 110 x 70	9
420-C6K	190 x 145 x 80	10
420-C7K	250 x 200 x 90	6
420-C8K	310 x 230 x 130	6

BOX WITH A TRANSPARENT COVER (WITH CONNECTOR) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
420-C5R	150 x 110 x 70	9
420-C6R	190 x 145 x 80	10
420-C7R	250 x 200 x 90	6
420-C8R	310 x 230 x 130	6

DEEP OPAQUE PLASTIC BOX (WITH CONNECTOR) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
430-C3R	80 x 120 x 120	35
430-C4R	100 x 100 x 120	36
430-C5R	150 x 110 x 140	16
430-C6R	190 x 145 x 140	10
430-C7R	250 x 200 x 160	6
430-C8R	310 x 230 x 180	6

DEEP OPAQUE PLASTIC BOX (PLAIN) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
430-C3D	80 x 120 x 120	35
430-C4D	100 x 100 x 120	36
430-C5D	150 x 110 x 140	16
430-C6D	190 x 145 x 140	10
430-C7D	250 x 200 x 160	6
430-C8D	310 x 230 x 180	6

MOUNTING RAILS IN BOX



MSM Code	Sizes LxWxH (mm)	Type
460-D10	35 x 7,5 x 1000	With Hole
460-D11	35 x 15 x 1500	Without Hole

OPAQUE PLASTIC BOX (WITH KNOCKOUTS) IP 44



MSM Code	Diameter Ø (mm) x H	Quantity per Pack. (pcs)
400-C1K	Ø70 x 40	60
400-C2K	Ø85 x 45	40
400-C3K	80 x 80 x 40	40

OPAQUE PLASTIC BOX (WITH KNOCKOUTS) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
400-C4K	100 x 100 x 50	18
400-C4RK	120 x 80 x 50	22
400-C5K	150 x 110 x 70	9
400-C6K	190 x 145 x 80	10
400-C7K	250 x 200 x 90	6
400-C8K	310 x 230 x 130	6

DEEP BOX WITH A TRANSPARENT COVER (PLAIN) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
440-C5D	150 x 110 x 140	16
440-C6D	190 x 145 x 140	10
440-C7D	250 x 200 x 160	6
440-C8D	310 x 230 x 180	6

DEEP BOX WITH A TRANS. COVER (WITH KNOCKOUTS) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
440-C5K	150 x 110 x 140	16
440-C6K	190 x 145 x 140	10
440-C7K	250 x 200 x 160	6
440-C8K	310 x 230 x 180	6

DEEP BOX WITH A TRANSPARENT COVER (WITH CONN.) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
440-C5K	150 x 110 x 140	16
440-C6K	190 x 145 x 140	10
440-C7K	250 x 200 x 160	6
440-C8K	310 x 230 x 180	6

DEEP OPAQUE PLASTIC BOX (WITH KNOCKOUTS) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
430-C3K	80 x 120 x 120	35
430-C4K	100 x 100 x 120	36
430-C5K	150 x 110 x 140	16
430-C6K	190 x 145 x 140	10
430-C7K	250 x 200 x 160	6
430-C8K	310 x 230 x 180	6

OPAQUE PLASTIC BOX (PLAIN) IP 55



MSM Code	Sizes LxWxH (mm)	Quantity per Pack. (pcs)
410-C4D	100 x 100 x 50	18
410-C4RD	120 x 80 x 50	22
410-C5D	150 x 110 x 70	9
410-C6D	190 x 145 x 80	10
410-C7D	250 x 200 x 90	6
410-C8D	310 x 230 x 130	6
410-C9D	230 x 125 x 77	16
410-C10D	347 x 125 x 77	6
410-C11D	400 x 300 x 130	6
410-C12D	457 x 125 x 77	6

- All boxes contain polycarbonate and are supplied with ABS.
- For polyamide connectors attached to the inlets of the boxes see page 66.

NYLON CABLE TIE - TRANSPARENT - BLACK



MSM Code Transparent	MSM Code Black	Size LxW (mm)	Quantity per Pack. (pcs)
M10025	S10025	100 x 2.5	100
M16025	S16025	160 x 2.5	100
M20025	S20025	200 x 2.5	100
M14035	S14035	140 x 3.5	100
M20035	S20035	200 x 3.5	100
M25035	S25035	250 x 3.5	100
M28035	S28035	280 x 3.5	100
M36035	S36035	360 x 3.5	100
M16045	S16045	160 x 4.5	100
M20045	S20045	200 x 4.5	100
M25045	S25045	250 x 4.5	100
M30045	S30045	300 x 4.5	100
M36045	S36045	360 x 4.5	100
M43045	S43045	430 x 4.5	100
M28075	S28075	280 x 7.5	100
M32075	S32075	320 x 7.5	100
M36075	S36075	360 x 7.5	100
M45075	S45075	450 x 7.5	100
M54075	S54075	540 x 7.5	100
M78090	S78090	780 x 9.0	100
M92090	S92090	920 x 9.0	100
M120090	S120090	1200 x 9.0	100
M750125	S750125	750 x 12.5	50
M100125	S100125	1000 x 12.5	50

STAINLESS STEEL CABLE TIE



MSM Code	Size LxW (mm)	Quantity per Package (pcs)
PKB - 2046	200 x 4.6	100
PKB - 3046	300 x 4.6	100
PKB - 3746	370 x 4.6	100
PKB - 5246	520 x 4.6	100
PKB - 2079	200 x 7.9	100
PKB - 3079	300 x 7.9	100
PKB - 3779	370 x 7.9	100

COLORFUL CABLE TIE



MSM Code	Size LxW (mm)	Quantity per Package (pcs)
S10025	100 x 2.5	100
K10025	100 x 2.5	100
M10025	100 x 2.5	100
V10025	100 x 2.5	100
Y10025	100 x 2.5	100
S28035	280 x 3.5	100
K28035	280 x 3.5	100
M28035	280 x 3.5	100
V28035	280 x 3.5	100
Y28035	280 x 3.5	100

POLYESTER CABLE SLEEVE - BLACK



MSM Code	Diameter (mm)	Quantity per Package (mt)
PKÇ - 3	3	100
PKÇ - 6	6	100
PKÇ - 10	10	100
PKÇ - 12	12	100
PKÇ - 15	15	100
PKÇ - 20	20	100
PKÇ - 25	25	100
PKÇ - 30	30	100
PKÇ - 40	40	100
PKÇ - 50	50	100

NOTE: Cable sleeves are also available in gray, red, blue, yellow and white colors.

HEATSHRINK TUBING (2/1)



MSM Code	Inside Dia. (mm)	Quantity per Package (mt)
BM-01	1,6	200
BM-02	2,4	200
BM-03	3,2	200
BM-04	4,8	200
BM-05	6,4	150
BM-06	9,5	150
BM-07	12,7	100
BM-08	16,0	100
BM-09	19,1	50
BM-10	25,4	50
BM-11	35,0	50
BM-12	40,0	25
BM-13	51,0	25
BM-14	76,0	15
BM-15	102,0	15

HEATSHRINK TUBING / SELF-EXTINGUISHING (2/1)



MSM Code	Inside Dia. (mm)	Quantity per Package (mt)
YBM-01	1,5	200
YBM-02	2,5	200
YBM-03	3,0	200
YBM-04	4,0	200
YBM-05	6,0	100
YBM-06	9,0	100
YBM-07	12,0	100
YBM-08	16,0	100
YBM-09	20,0	100
YBM-10	25,0	50
YBM-11	30,0	50
YBM-12	40,0	50
YBM-13	50,0	25
YBM-14	80,0	25
YBM-15	100,0	25

HEATSHRINK TUBING YELLOW/GREEN (2/1)



MSM Code	Inside Dia. (mm)	Quantity per Package (mt)
MSY-01	2,4	200
MSY-02	3,2	200
MSY-03	4,8	150
MSY-04	6,4	150
MSY-05	9,5	150
MSY-06	12,7	100
MSY-07	19,0	50
MSY-08	25,4	50
MSY-09	32,0	30
MSY-10	38,0	30

GLUE LINED HEATSHRINK TUBING (3/1)



MSM Code	Inside Diameter (mm)	Quantity per Package (mt)
YM-01	12,0	10
YM-02	20,0	5
YM-03	32,0	4
YM-04	40,0	3
YM-05	55,0	3
YM-06	70,0	3
YM-07	90,0	2
YM-08	125,0	2

NOTE: The average shrinking temperature of the tubes is +70°C, the operating temperature is from -55°C to +125°C.

SUPER WATERPROOF POLYAMIDE CABLE GLAND

IP68

CE PG EAC



- Certified by CE, GOST-R and EAC.
- Made of Polyamide PA6.
- Conforms to EN 50262 standard.
- Heat resistance -30°C, +80°C.
- Color options: Gray (RAL 7001), Light Gray (RAL 7035) and Black (RAL 9005).
- Used as an engine or related devices' connector where no conduits are used.

MSM Code Gray	MSM Code Black	Thread Size	Cable Dia.		Hole Dia. (mm)	Thread Length (mm)
			Min	Max		

Pg Thread

PKR-P1	PKR-P1.N	Pg-7	3	6	14,5	7,5
PKR-P2	PKR-P2.N	Pg-9	4	8	17,2	10,0
PKR-P3	PKR-P3.N	Pg-11	5	10	20,6	10,0
PKR-P4	PKR-P4.N	Pg-13,5	6	12	22,4	10,0
PKR-P5	PKR-P5.N	Pg-16	10	14	24,5	10,0
PKR-P6	PKR-P6.N	Pg-21	13	18	30,3	10,0
PKR-P7	PKR-P7.N	Pg-29	18	25	39,0	10,5
PKR-P8	PKR-P8.N	Pg-36	22	32	49,0	16,0
PKR-P9	PKR-P9.N	Pg-42	30	38	56,0	14,0
PKR-P10	PKR-P10.N	Pg-48	34	44	61,3	14,0

Metric Thread

PKR-M1	PKR-M1.N	M12x1,5	3	6	14,0	10,0
PKR-M2	PKR-M2.N	M16x1,5	5	10	18,0	10,0
PKR-M3	PKR-M3.N	M20x1,5	6	12	22,0	10,0
PKR-M4	PKR-M4.N	M25x1,5	13	18	27,0	10,5
PKR-M5	PKR-M5.N	M32x1,5	18	25	34,0	16,0
PKR-M6	PKR-M6.N	M40x1,5	22	32	42,0	18,0
PKR-M7	PKR-M7.N	M50x1,5	30	38	52,0	18,0
PKR-M8	PKR-M8.N	M63x1,5	34	44	65,0	18,0

CABLE WRAP SPIRAL

TRANSPARENT



MSM Code	Diameter Ø I x O (mm)	Quantity per Package (pcs)
P-1,5	1,5 x 3	25
P-03	3 x 5	25
P-04	4 x 6	25
P-06	6 x 8	25
P-08	8 x 10	25
P-10	10 x 12	25
P-12	12 x 14	20
P-14	14 x 16	20

CABLE WRAP SPIRAL/NO-FLAME PROPAGATING

WHITE



MSM Code	Diameter Ø I x O (mm)	Quantity per Package (pcs)
PA-1,5	1,5 x 3	25
PA-03	3 x 5	25
PA-04	4 x 6	25
PA-06	6 x 8	25
PA-08	8 x 10	25
PA-10	10 x 12	25
PA-12	12 x 14	20
PA-14	14 x 16	20

CABLE WRAP SPIRAL

BLACK



MSM Code	Diameter Ø I x O (mm)	Quantity per Package (pcs)
PN-1,5	1,5 x 3	25
PN-03	3 x 5	25
PN-04	4 x 6	25
PN-06	6 x 8	25
PN-08	8 x 10	25
PN-10	10 x 12	25
PN-12	12 x 14	20
PN-14	14 x 16	20

CABLE CHANNEL WITH NARROW HOLES TYPE "S"

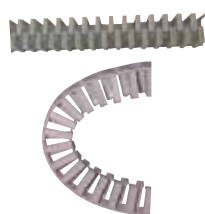
4/6/4



MSM Code	Width (mm)	Height (mm)	Quant. per Pack. (mt)
S 2525	25	25	100
S 2580	25	80	56
S 4025	40	25	80
S 4040	40	40	70
S 40100	40	100	32
S 6040	60	40	50
S 60100	60	100	24
S 8040*	80	40	40
S 8060*	80	60	28
S 10040*	100	40	28
S 10060*	100	60	20
S 10080*	100	80	24
S 12040*	120	40	24

- These products can be used together with SES-G type separator.
- Cable channels of type A of above-stated sizes are also available for ordering.

FLEXIBLE CABLE CHANNEL FOR IN-PANELBOARD



MSM Code	Dimensions WxHxL (mm)	Quant. per Pack. (mt)
23411	12 x 12 x 500	112
23412	16 x 16 x 500	84
23413	20 x 20 x 500	112
23414	25 x 25 x 500	70
23415	30 x 30 x 500	50
23416	40 x 40 x 500	50
23417	50 x 50 x 500	32

CABLE CHANNELS GENERAL TECHNICAL CHARACTERISTICS

- Material: Polyvinyl Chloride (PVS).
- Material properties: self-extinguishing (non-flame propagating).
- Fire protection class: VO-UL94.
- Standard length: 2m.
- Standard color: Gray RAL 7030.
- Conform to standards: C.E.I.23-22, I.M.Q. EA850, U.L. 169019.

POLYAMIDE FLEXIBLE CONDUIT


- Certified by TSE and CE
- Made of Polyamide (PA6), halogen-free and non-flame propagating
- Oil, acids and weather-resistant
- Black type is UV-proof
- Especially suitable for use in machine production and automotive industry to connect engines to related equipment and in security system cable installations

(GRAY-BLACK) -40°C / +120°C

Code Gray	Code Black	Inside Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (pcs)
PS-07	PS-07N	6,5	10,0	100
PS-08	PS-08N	8,5	12,0	100
PS-09	PS-09N	10,0	13,0	100
PS-11	PS-11N	12,0	16,0	100
PS-13	PS-13N	14,0	18,5	100
PS-16	PS-16N	17,0	21,5	50
PS-21	PS-21N	23,0	28,7	50
PS-29	PS-29N	29,0	34,5	25
PS-36	PS-36N	36,0	42,5	25
PS-48	PS-48N	48,0	54,5	25

POLYAMIDE SPLIT FLEXIBLE CONDUIT


- Made of Polyamide (PA6), halogen-free and non-flame propagating
- Oil, acids and weather-resistant
- Black type is UV-proof
- Used to protect the cable
- Especially suitable for use in machine production and automotive industry to connect engines to related equipment and in security system cable installations

(GRAY-BLACK) -40°C / +120°C

Code Gray	Code Black	Inside Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (pcs)
PSY-07	PSY-07N	6,5	10,0	100
PSY-08	PSY-08N	8,5	12,0	100
PSY-09	PSY-09N	10,0	13,0	100
PSY-11	PSY-11N	12,0	16,0	100
PSY-13	PSY-13N	14,0	18,5	100
PSY-16	PSY-16N	17,0	21,5	50
PSY-21	PSY-21N	23,0	28,7	50
PSY-29	PSY-29N	29,0	34,5	25
PSY-36	PSY-36N	36,0	42,5	25
PSY-48	PSY-48N	48,0	54,5	25

POLYPROPYLENE FLEXIBLE CONDUIT


- Certified by TSE and CE.
- Made of Polypropylene.
- In cold temperatures shows strength and endurance under reverse bending pressure.
- Especially suitable for use in electrical installations, machine and automotive industry to connect engines to related equipment and in security system cable installations.

(GRAY-BLACK) -40°C / +95°C

Code Gray	Code Black	Inside Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (pcs)
PP-07	PP-07N	6,5	10,0	100
PP-08	PP-08N	8,5	12,0	100
PP-09	PP-09N	10,0	13,0	100
PP-11	PP-11N	12,0	16,0	100
PP-13	PP-13N	14,0	18,5	100
PP-16	PP-16N	17,0	21,5	50
PP-21	PP-21N	23,0	28,7	50
PP-29	PP-29N	29,0	34,5	25
PP-36	PP-36N	36,0	42,5	25
PP-48	PP-48N	48,0	54,5	25

POLYPROPYLENE SPLIT FLEXIBLE CONDUIT


- Certified by TSE and CE.
- Made of Polypropylene.
- In cold temperatures shows strength and endurance under reverse bending pressure.
- Especially suitable for use in electrical installations, machine and automotive industry to connect engines to related equipment and in security system cable installations.
- Used to protect the cable.

(GRİ - SİYAH) -40°C / +95°C

Code Gray	Code Black	Inside Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (pcs)
PPY-07	PPY-07N	6,5	10,0	100
PPY-08	PPY-08N	8,5	12,0	100
PPY-09	PPY-09N	10,0	13,0	100
PPY-11	PPY-11N	12,0	16,0	100
PPY-13	PPY-13N	14,0	18,5	100
PPY-16	PPY-16N	17,0	21,5	50
PPY-21	PPY-21N	23,0	28,7	50
PPY-29	PPY-29N	29,0	34,5	25
PPY-36	PPY-36N	36,0	42,5	25
PPY-48	PPY-48N	48,0	54,5	25

POLYAMIDE STRAIGHT CONNECTOR

IP65

CE RoHS



- Certified by CE and ROHS.
- Made of Polyamide (PA6), halogen-free.
- Protection level up to IP-67 when used with a suitable gasket (O-ring).
- Lock nut available for metric thread types.

(GRAY-BLACK)

Suitable Flex. Conduit Type	Pg Code	Pg Size	Metric Code	Metric Size
PS / PP - 07	PBR-P1	Pg 7	---	---
PS / PP - 09	PBR-P2	Pg 9	---	---
PS / PP - 11	PBR-P3	Pg 11	PBR-M2	M16 x 1,5
PS / PP - 13	PBR-P4	Pg 13,5	---	---
PS / PP - 16	PBR-P5	Pg 16	PBR-M3	M20 x 1,5
PS / PP - 21	PBR-P6	Pg 21	PBR-M4	M25 x 1,5
PS / PP - 29	PBR-P7	Pg 29	PBR-M5	M32 x 1,5
PS / PP - 36	PBR-P8	Pg 36	---	---
PS / PP - 48	PBR-P10	Pg 48	---	---

POLYAMIDE ELBOW CONNECTOR 90°

IP65

CE RoHS



- Certified by CE and ROHS.
- Made of Polyamide (PA6), halogen-free.
- Protection level up to IP-67 when used with a suitable gasket (O-ring).
- Recommended mounting temperatures: from -40°C to +105°C.

(GRAY-BLACK)

Suitable Flexible Conduit Type	Pg Code	Pg Size
PS / PP - 07	PRD-P1	Pg 7
PS / PP - 09	PRD-P2	Pg 9
PS / PP - 11	PRD-P3	Pg 11
PS / PP - 13	PRD-P4	Pg 13,5
PS / PP - 16	PRD-P5	Pg 16
PS / PP - 21	PRD-P6	Pg 21
PS / PP - 29	PRD-P7	Pg 29
PS / PP - 36	PRD-P8	Pg 36
PS / PP - 48	PRD-P10	Pg 48

POLYAMIDE CONNECTOR COMPRESSION TYPE

IP68

CE RoHS



- Certified by CE and ROHS.
- Made of Polyamide (PA6), halogen-free.
- Lock nut available for metric thread types.
- Recommended mounting temperatures: from -40°C to +120°C.

(GRAY-BLACK)

Suitable Flex. Conduit Type	Pg Code	Pg Size	Metric Code	Metric Size
PS / PP - 07	PGR-P1	Pg 7	PGR-M1	M12 x 1,5
PS / PP - 09	PGR-P2	Pg 9	PGR-M2	M16 x 1,5
PS / PP - 11	PGR-P3	Pg 11	PGR-M2.1	M16 x 1,5
PS / PP - 13	PGR-P4	Pg 13,5	PGR-M3.1	M20 x 1,5
PS / PP - 16	PGR-P5	Pg 16	PGR-M3	M20 x 1,5
PS / PP - 21	PGR-P6	Pg 21	PGR-M4	M25 x 1,5
PS / PP - 29	PGR-P7	Pg 29	PGR-M5	M32 x 1,5
PS / PP - 36	PGR-P8	Pg 36	PGR-M6	M40 x 1,5
PS / PP - 48	PGR-P10	Pg 48	PGR-M8	M63 x 1,5

POLYAMIDE COMP. TYPE ELBOW CONNECTOR 90° IP68

CE RoHS



- Certified by CE and ROHS.
- Made of Polyamide (PA6), halogen-free.
- Lock nut available for metric thread types.
- Recommended mounting temperatures: from -40°C to +105°C.

(GRAY-BLACK)

Suitable Flexible Conduit Type	Pg Code	Pg Size
PS / PP - 07	PRG-P1	Pg 7
PS / PP - 09	PRG-P2	Pg 9
PS / PP - 11	PRG-P3	Pg 11
PS / PP - 13	PRG-P4	Pg 13,5
PS / PP - 16	PRG-P5	Pg 16
PS / PP - 21	PRG-P6	Pg 21
PS / PP - 29	PRG-P7	Pg 29
PS / PP - 36	PRG-P8	Pg 36
PS / PP - 48	PRG-P10	Pg 48

POLYAMIDE CAPPED STRAP

CE



- Certified by CE.
- Made of Polyamide (PA6), halogen-free.
- The cap provides long-term steady fixing of flexible conduits to any kind of surface.
- The cap is attached to the body by means of a nylon tie.

(GRAY-BLACK)

Suitable Flexible Conduit Type	Code Gray	Code Black
PS / PP - 07	PBK-07	PBK-07N
PS / PP - 09	PBK-09	PBK-09N
PS / PP - 11	PBK-11	PBK-11N
PS / PP - 13	PBK-13	PBK-13N
PS / PP - 16	PBK-16	PBK-16N
PS / PP - 21	PBK-21	PBK-21N
PS / PP - 29	PBK-29	PBK-29N
PS / PP - 36	PBK-36	PBK-36N
PS / PP - 48	PBK-48	PBK-48N

POLYAMIDE LOCK NUT

CE



- Certified by CE and VDE.
- Made of Polyamide (PA6), halogen-free.
- Used to fix connectors, boards and equipment connections.

(GRAY-BLACK)

Pg Code	Pg Size	Metric Code	Metric Size
PKS-P1	Pg 7	PKS-M1	M12 x 1,5
PKS-P2	Pg 9	PKS-M2	M16 x 1,5
PKS-P3	Pg 11	-	-
PKS-P4	Pg 13,5	PKS-M3	M20 x 1,5
PKS-P5	Pg 16	PKS-M4	M25 x 1,5
PKS-P6	Pg 21	PKS-M5	M32 x 1,5
PKS-P7	Pg 29	PKS-M6	M40 x 1,5
PKS-P8	Pg 36	PKS-M7	M50 x 1,5
PKS-P10	Pg 48	PKS-M8	M63 x 1,5

POLYAMIDE BLIND PLUG

IP 54

CE



- Certified by TSE.
- Made of Polyamide (PA6), halogen-free.
- Especially suitable for filling in unfilled openings in panel boards and distributor boxes.

(GRAY-BLACK)

Pg Code	Pg Size	Metric Code	Metric Size
PKT-P1	Pg 7	PKT-M1	M12 x 1,5
PKT-P2	Pg 9	---	---
PKT-P3	Pg 11	PKT-M2	M16 x 1,5
PKT-P4	Pg 13,5	PKT-M3	M20 x 1,5
PKT-P5	Pg 16	---	---
PKT-P6	Pg 21	PKT-M4	M25 x 1,5
PKT-P7	Pg 29	PKT-M5	M32 x 1,5
PKT-P8	Pg 36	PKT-M6	M40 x 1,5
PKT-P9	Pg 42	PKT-M7	M50 x 1,5
PKT-P10	Pg 48	PKT-M8	M63 x 1,5

POLYAMIDE DISTRIBUTORS "Y," and "T," TYPES

IP 42

RoHS



- Certified by ROHS.
- Made of Polyamide (PA6), halogen-free.
- Self-extinguishing.
- Resistant to oil, acids, petrol chemical substances.
- Especially suitable for use as a cable distributing element in machine production and automotive industry.

-40°C / +110°C

Y Type Code	Flexible Conduit Size	T Type Code	Flexible Conduit Size
PYD-01	07-07-07	PTD-01	07-07-07
PYD-02	09-09-07	PTD-02	09-09-07
PYD-03	09-09-09	PTD-03	09-09-09
PYD-04	11-11-07	PTD-04	11-11-09
PYD-05	11-11-09	PTD-05	11-11-11
PYD-06	16-11-09	PTD-06	16-11-11
PYD-07	16-16-09	PTD-07	16-11-16
PYD-08	16-16-11	PTD-08	16-16-11
PYD-09	21-21-11	PTD-09	21-16-16
PYD-10	21-21-16	PTD-10	21-21-21

IMPORTED POLYAMIDE FLEXIBLE CONDUIT

IEC - EN   

- Certified by IEC, EN and UL.
- Made of Polyamide (PA6), halogen-free and non-flame propagating.
- Oil and acid-resistant flexible conduit.
- Especially suitable for indoor use in machine production and automotive industry to connect engines to related equipment and in security system cable installations.

(BLACK) -40°C / +120°C

Light Series Code	Light Series Ins. Dia. (mm)	Medium Ser. Code	Medium Ser. Ins. Dia. (mm)	Outside Dia. (mm)	Quantity per Pack. (pcs)
FPAL-10	6,5	FPAS-10	6,3	10	50
FPAL-13	10	FPAS-13	9,8	13	50
FPAL-16	12	FPAS-16	11,8	15,8	50
FPAL-21	16,9	FPAS-21	16,7	21,2	50
FPAL-28	23	FPAS-28	22,8	28,5	50
FPAL-34	28,3	FPAS-34	28,1	34,5	25
FPAL-42	35,7	FPAS-42	35,5	42,5	25
FPAL-54	47,4	FPAS-54	47,2	54,5	25

POLYAMIDE STRAIGHT CONNECTOR

IP66

IEC - EN   

- Certified by IEC, EN and UL
- Made of Polyamide (PA6), halogen-free
- Protection level up to IP-67 when used with a suitable gasket (O-ring)
- Lock nut available for metric thread types.

(BLACK) 50°C / +135°C

Metric Code	Metric Size	Pg Code	Pg Size	Suitable Flex. Conduit Type
FPA10-M12	M12x1,5	FPA10-Pg7	Pg7	Ø10
FPA13-M16	M16x1,5	FPA13-Pg9	Pg9	Ø13
FPA16-M16	M16x1,5	FPA16-Pg11	Pg11	Ø16
FPA16-M20	M20x1,5	FPA16-Pg13	Pg13,5	Ø16
FPA21-M20	M20x1,5	FPA21-Pg16	Pg16	Ø21
FPA28-M25	M25x1,5	FPA28-Pg21	Pg21	Ø28
FPA34-M32	M32x1,5	FPA34-Pg29	Pg29	Ø34
FPA42-M40	M40x1,5	FPA42-Pg36	Pg36	Ø42
FPA54-M50	M50x1,5	FPA54-Pg48	Pg48	Ø54

POLYAMIDE ELBOW CONNECTOR 90°

IP66

IEC - EN   

- Certified by IEC, EN and UL
- Made of Polyamide (PA6), halogen-free
- Protection level up to IP-67 when used with a suitable gasket (O-ring)
- Lock nut available for metric thread types.

(BLACK) -50°C / +135°C

Metric Code	Metric Size	Pg Code	Pg Size	Suitable Flex. Conduit Type
FPA10-M12-90	M12x1,5	FPA10-Pg7-90	Pg7	Ø10
FPA13-M16-90	M16x1,5	FPA13-Pg9-90	Pg9	Ø13
FPA16-M16-90	M16x1,5	FPA16-Pg11-90	Pg11	Ø16
FPA16-M20-90	M20x1,5	FPA16-Pg13-90	Pg13,5	Ø16
FPA21-M20-90	M20x1,5	FPA21-Pg16-90	Pg16	Ø21
FPA28-M25-90	M25x1,5	FPA28-Pg21-90	Pg21	Ø28
FPA34-M32-90	M32x1,5	FPA34-Pg29-90	Pg29	Ø34
FPA42-M40-90	M40x1,5	FPA42-Pg36-90	Pg36	Ø42
FPA54-M50-90	M50x1,5	FPA54-Pg48-90	Pg48	Ø54

POLYAMIDE CAPPED STRAP

IEC - EN   

- Certified by IEC, EN and UL.
- Made of Polyamide (PA6), halogen-free.
- The cap provides long-term steady fixing of flexible conduits to any kind of surface.
- The cap is attached to the body by means of a nylon tie.

(BLACK) -50°C / +135°C

MSM Code	Conduit Size	Suitable Flexible Conduit Type
FCL-10	Ø10	FPAL-FPAS 10
FCL-13	Ø13	FPAL-FPAS 13
FCL-16	Ø16	FPAL-FPAS 16
FCL-21	Ø21	FPAL-FPAS 21
FCL-28	Ø28	FPAL-FPAS 28
FCL-34	Ø34	FPAL-FPAS 34
FCL-42	Ø42	FPAL-FPAS 42
FCL-54	Ø54	FPAL-FPAS 54



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EAC

CE

- ▶ **Ex-Proof Unarmored Cable Glands**
- ▶ **Ex-Proof Armored Cable Glands**
- ▶ **Ex-Proof Galvanized Conduit Unions**
- ▶ **Ex-Proof Flexible & Rigid Conduit Connectors**

- ▶ **Ex-Proof Blind Plugs**
- ▶ **Ex-Proof Sealing Fittings & J.Boxes**
- ▶ **Ex-Proof Nipples & Couplings**
- ▶ **Ex-Proof Adapters & Reductions**

For detailed information and ATEX documents of all our Ex-Proof products, please see our website www.exproof.info.

ATEX; The ATEX directives of the European Union Organizations have been applicable since July 1, 2003, were revised into Directive 2014/34/EU on April 20, 2016. ATEX is a combination of the first syllables of the French words "ATmosphères EXplosives" and means Explosive Atmospheres. The ATEX regulations effective in the European Union countries and recognized in many non-EU countries define the minimum safety requirements for explosive atmospheres, and covers the equipment mentioned here.

Exproof; It is the general name of Equipment and Protective Systems specially produced for use in potentially flammable and explosive areas.

Gas and vapour leaks occur during production, handling, transportation and storage of flammable chemicals and petroleum products (e.g. methane, alcohol, acetylene, natural gas ...) may inevitably react with the oxygen from the atmosphere to form an explosive concentration.

In such a situation, electrical arc, static electricity or excessive surface temperature may lead to an explosion that may endanger property and life safety. The structure and features of electrical equipment designed for use in such hazardous areas varies greatly from those used in normal areas. Such materials are named as Exproof (Flameproof) electrical materials by professionals who use them.

The equipment used in explosive, flammable and inflammable areas is labelled with specific codes. The aim is for the personnel working in hazardous areas to use the right equipment in the right area by paying attention to these codes. The same ex-proof equipment cannot be suitable for using everywhere. Explosions are mainly due to the wrong equipment picked for the area.

Tools from upper categories can be suitable for use in lower category. However, tools designed for lower categories can never be used in upper categories. The Category 1 tools can be comfortably used in **ZONE 0, ZONE 1, and ZONE 2**. However, the Category 2 tools can never be used in ZONE 0.

Hazardous Area Classification Comparison Table

European & IEC Classification	Definition of ZONE or DIVISION	North American Classification
Zone 0 (Gasses) Zone 20 (Dusts)	An area in which an explosive mixture is continuously present or frequently present	Class I Division 1 (Gasses) Class II Division 1 (Dusts)
Zone 1 (Gasses) Zone 21 (Dusts)	An area in which an explosive mixture is likely to occur but not regularly	Class I Division 1 (Gasses) Class II Division 1 (Dusts)
Zone 2 (Gasses) Zone 22 (Dusts)	An area in which an explosive mixture is not likely to occur and if it occurs it will exist only for a short time	Class I Division 2 (Gasses) Class II Division 2 (Dusts) Class III Division 1 (Fibers) Class III Division 2 (Fibers)



Gas Groups Comparison Table

Typical Gases	European & IEC Gas Groups	North American Gas Groups
Methane	I	-
Acetylene	IIC	A
Hydrogen	IIC	B
Ethylene	IIB	C
Propane	IIA	D
Metal Dust	-	E
Coal Dust	-	F
Grain Dust	-	G

Temperature Classification Comparison Table

Temperature Classification		Maximum Surface Temperature
European & IEC	North American	
T1	T1	450°C
T2	T2	300°C
	T2A	280°C
	T2B	260°C
	T2C	230°C
	T2D	215°C
T3	T3	200°C
	T3A	180°C
	T3B	165°C
	T3C	160°C
T4	T4	135°C
	T4A	120°C
T5	T5	100°C
T6	T6	85°C

Electrical equipment in hazardous areas

Electrical installations in dangerous areas (flammable-explosive environments) are detailed in the TSE EN 60079-14 standard. Products that have either ATEX or TSE certification are deemed suitable for use in ex-proof electrical installations in hazardous areas.

Choosing the right equipment is as important as calculating Temperature Classes and Gas Groups, and designing an electrical installation.

Cables connected to electrical equipment in hazardous areas feature cable glands or cable conduits that ensure environmental safety.

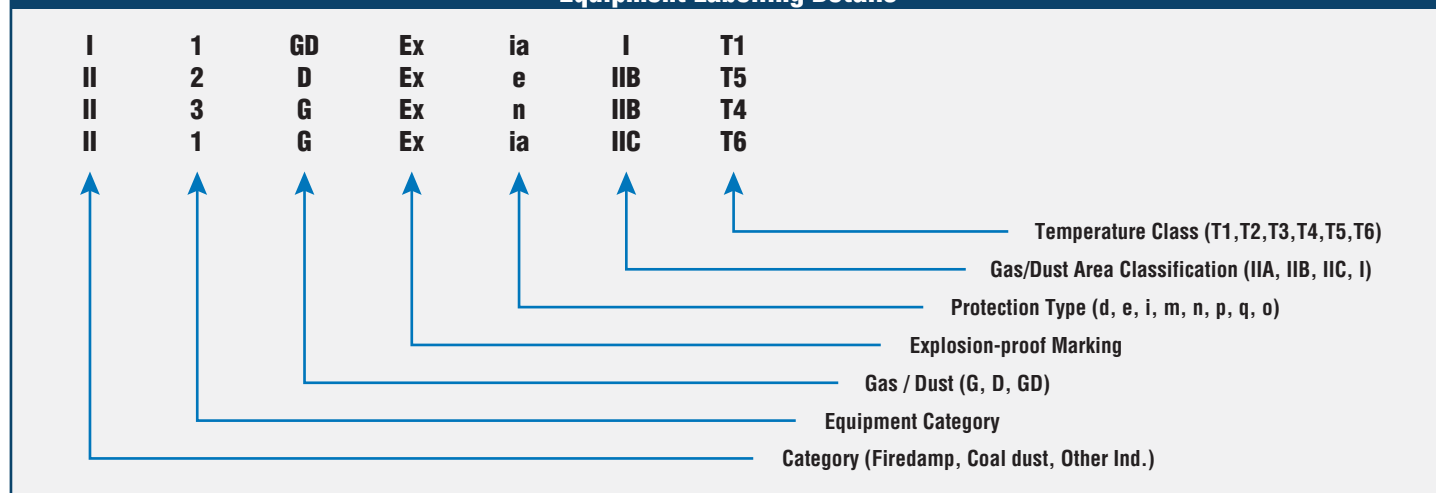
Selection of ex-proof cable gland (**M-VEN type ex-proof unarmoured or M-MER type ex-proof armoured cable glands**), and the type and the size of the cable and the junction box of the ex-proof equipment (**GWR-SKX-DMD type GRP terminal boxes, EJB cast distribution cabinets**) must comply with the relevant protection class.

Cables to be used in installation should be protected against mechanical damage, corrosion, chemicals, and heat. In cases where it cannot be protected, cables must be enclosed safely in **IMC or RSC (I.T.C.C / Prostar)** conduits. IMC or RSC conduit provides great convenience, especially if more than one cable is connected to ex-proof equipment. In order to ensure environmental safety a proper installation must feature the special **MCK-1000** sealing resin with **EYS or EZS ex-proof stoppers, M-BMF, M-BMM, M-BFF ex-proof galvanized conduit unions, NP.. ex-proof nipple, SPH.. ex-proof stainless flexible conduits**.

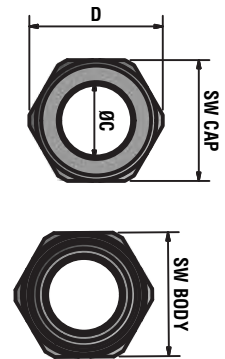
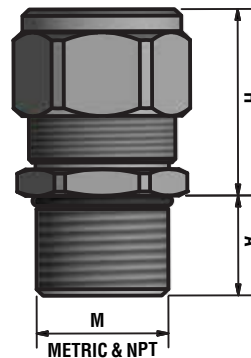
Note: According to ATEX, cables and rigid conduit are not considered a source of breakdown. **Therefore, there is no cable and conduit named as an ex-proof. Only SPH type spiral hoses can be used as Ex-Proof conduits.**

MSM Engineering Ltd. Co., has ATEX certification, **EAC and IEP** (Energy Petroleum Institute) certificates, and therefore, complies with the **2014/34/EU** directive for the Ex-proof (explosion proof) cable glands, conduit unions and fittings such as reducers, adapters, etc. the company manufactures.

Equipment Labelling Details



M-VEN TYPE EX-PROOF UNARMoured CABLE GLANDS



Technical Details

Type	Unarmoured Cable Glands Metric & NPT Thread
Classification	Ex I M2 Ex db / eb I Mb / II 1D Ex tb IIIC Da / II 2G Ex db / eb IIC Gb
Certificate	IEP 19 ATEX 0708X / Directive 2014/34/EU
Material	MS 58 Brass, Nickel Plated Over Brass
Standards	EN 60079-0 / EN 60079-1 / EN 60079-7 / EN 60079-31
IP standard	EN 60529 IP66 & IP68
Sealing Material	Chloroprene Gasket -40°C to +100°C / Silicone Gasket -60°C to +180°C
Applications	Grup II-III / Gas & Dust, Zone 1-2 & 21-22 Gas Group IIA, IIB, IIC / Dust Group IIIA, IIIB, IIIC
Optional Accessories	PVC Shroud, Lock Nut, Earth Tag, IP Washer Gasket

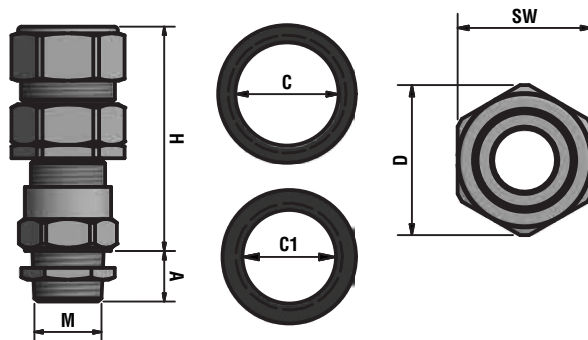


MSM Code	Metric Size	Clamping Range Ø min-max	Thread Length A (mm)	Thread Dia. M (mm)	Height H (mm)	Spanner Width		Outer Dia. D (mm)	Weight (kg)
						SW Cap (mm)	SW Body (mm)		
M-VEN1M	M12x1,5	4 ÷ 8	15,0	12,0	19,0	16,0	15,0	17,5	0,025
M-VEN2M	M16x1,5	5 ÷ 10	15,0	16,0	21,0	20,0	19,0	22,5	0,045
M-VEN3M	M20x1,5	10 ÷ 14	15,0	20,0	22,0	24,0	23,0	26,5	0,055
M-VEN4M	M25x1,5	13 ÷ 18	15,0	25,0	23,0	30,0	28,0	33,5	0,075
M-VEN5M	M32x1,5	18 ÷ 25	15,0	32,0	24,0	40,0	36,0	44,0	0,130
M-VEN6M	M40x1,5	22 ÷ 32	15,0	40,0	27,0	50,0	50,0	55,0	0,245
M-VEN7M	M50x1,5	30 ÷ 38	15,0	50,0	32,0	60,0	55,0	66,0	0,355
M-VEN8M	M63x1,5	34 ÷ 44	15,0	63,0	35,0	65,0	65,0	72,0	0,490
M-VEN9M	M75x1,5	48 ÷ 61	15,0	75,0	40,0	85,0	80,0	93,0	0,790

MSM Code	NPT Size	Clamping Range Ø min-max	Thread Length A (mm)	Thread Dia. M (mm)	Height H (mm)	Spanner Width		Outer Dia. D (mm)	Weight (kg)
						SW Cap (mm)	SW Body (mm)		
M-VEN1N	1/4"	4 ÷ 8	15,0	13,716	19,0	16,0	16,0	17,5	0,030
M-VEN2N	3/8"	5 ÷ 10	15,0	17,145	21,0	20,0	19,0	22,5	0,050
M-VEN3N	1/2"	10 ÷ 14	15,0	21,336	22,0	24,0	24,0	26,5	0,060
M-VEN4N	3/4"	13 ÷ 18	15,0	26,670	23,0	30,0	30,0	33,5	0,085
M-VEN5N	1"	18 ÷ 25	15,0	33,401	24,0	40,0	36,0	44,0	0,135
M-VEN6N	1 1/4"	22 ÷ 32	15,0	42,164	27,0	50,0	50,0	55,0	0,255
M-VEN7N	1 1/2"	30 ÷ 38	15,0	47,800	32,0	60,0	55,0	66,0	0,380
M-VEN8N	2"	34 ÷ 44	15,0	60,325	35,0	65,0	65,0	72,0	0,515
M-VEN9N	2 1/2"	48 ÷ 61	15,0	73,025	40,0	85,0	80,0	93,0	0,910

MSM Code	Size Code	Male Thread	Material	Sealing Gasket	Accessories				Code Example
	2 : M16x1,5 3 : M20x1,5	M: Metric N: NPT	B: Brass BN: Brass Nickel Plated	S: Silicone C: Chloroprene	PVC Shroud	Lock Nut	Earth Tag	IP Washer Gasket	
M-VEN	2	M	BN	C	S	L	E	W	M-VEN2MBNCL

M-MER TYPE EX-PROOF ARMoured CABLE GLANDS



Technical Details

Type	Armoured Cable Glands Metric & NPT Thread
Classification	Ex I M2 Ex db/eb I Mb / II 2G Ex db/eb IIC Gb / II 1D Ex tb IIIC Da
Certificate	IEP 19 ATEX 0719X / Directive 2014/34/EU
Material	MS 58 Brass, Nickel Plated Over Brass
Standards	EN 60079-0 / EN 60079-1 / EN 60079-7 / EN 60079-31
IP standard	EN 60529 IP66 & IP68
Sealing Material	Chloroprene Gasket -40°C to +100°C / Silicone Gasket -60°C to +180°C
Applications	Grup II-III / Gas & Dust, Zone 1-2 & 21-22 Gas Group IIA, IIB, IIC / Dust Group IIIA, IIIB, IIIC
Optional Accessories	PVC Shroud, Lock Nut, Earth Tag, IP Washer Gasket

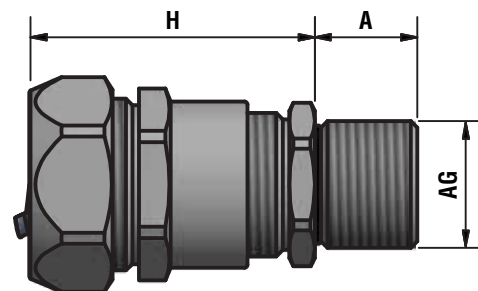
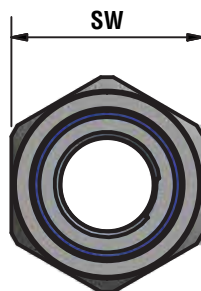


MSM Code	Metric Size	Male Thread Size M (mm)	Clamping Range (Ø min-max)		Thread Height A (mm)	Spanner Width (SW/D)		Height H (mm)	Weight (kg)
			C (mm)	C1 (mm)		SW (mm)	D (mm)		
M-MER1M	M12x1,5	12	3,0 ÷ 6,5	4,0 ÷ 9,0	15	18	20,00	62	0,080
M-MER2M	M16x1,5	16	11,0 ÷ 13,5	4,0 ÷ 9,0	15	22	24,50	67	0,120
M-MER3M	M20x1,5	20	15,0 ÷ 20,0	8,0 ÷ 13,0	15	30	33,50	68	0,192
M-MER4M	M25x1,5	25	20,0 ÷ 27,0	13,0 ÷ 19,0	15	36	40,50	71	0,256
M-MER5M	M32x1,5	32	26,0 ÷ 33,0	18,0 ÷ 26,0	15	45	51,50	79	0,409
M-MER6M	M40x1,5	40	33,0 ÷ 40,0	25,0 ÷ 32,0	15	55	61,50	88	0,692
M-MER7M	M50x1,5	50	43,0 ÷ 54,0	34,0 ÷ 44,0	15	70	77,50	97	1,083
M-MER8M	M63x1,5	63	58,0 ÷ 64,0	47,0 ÷ 54,0	15	80	88,50	126	1,418
M-MER9M	M75x1,5	75	65,0 ÷ 74,0	59,0 ÷ 65,0	15	90	100,00	126	1,800

MSM Code	NPT Size	Male Thread Size M (mm)	Clamping Range (Ø min-max)		Thread Height A (mm)	Spanner Width (SW/D)		Height H (mm)	Weight (kg)
			C (mm)	C1 (mm)		SW (mm)	D (mm)		
M-MER1N	1/4"	13,176	3,0 ÷ 6,5	4,0 ÷ 9,0	15	18	20,00	62	0,081
M-MER2N	3/8"	17,145	11,0 ÷ 13,5	4,0 ÷ 9,0	15	22	24,50	68	0,121
M-MER3N	1/2"	21,336	15,0 ÷ 20,0	8,0 ÷ 13,0	15	30	33,50	71	0,175
M-MER4N	3/4"	26,670	20,0 ÷ 27,0	13,0 ÷ 19,0	18	36	40,50	74	0,255
M-MER5N	1"	33,401	26,0 ÷ 33,0	18,0 ÷ 26,0	18	45	51,50	84	0,395
M-MER6N	1 1/4"	42,164	33,0 ÷ 40,0	25,0 ÷ 32,0	18	55	61,50	93	0,680
M-MER7N	1 1/2"	47,800	36,0 ÷ 45,0	30,0 ÷ 37,0	18	60	65,50	107	0,753
M-MER8N	2"	60,325	49,0 ÷ 59,0	40,0 ÷ 50,0	20	75	84,00	113	1,275
M-MER9N	2 1/2"	73,025	58,0 ÷ 64,0	47,0 ÷ 54,0	22	80	88,50	126	1,493

MSM Code	Size Code	Male Thread	Material	Sealing Gasket	Accessories				Code Example
	2 : M16x1,5 3 : M20x1,5				PVC Shroud	Lock Nut	Earth Tag	IP Washer Gasket	
M-MER	2	M	BN	C	S	L	E	W	M-MER2MBNCL

M-SBR TYPE EX-PROOF FLEXIBLE CONDUIT CONNECTORS



Technical Details

Type	Liquidtight Steel Flexible Conduit Connectors - Metric & NPT Thread
Classification	Ex I M2 Ex db/eb I Mb / II 2G Ex db/eb IIC Gb / II 1D Ex tb IIIC Da
Certificate	IEP 20 ATEX 0820X / Directive 2014/34/EU
Material	MS 58 Brass, Nickel Plated Over Brass
Standards	EN 60079-0 / EN 60079-1 / EN 60079-7 / EN 60079-31
IP standard	EN 60529 IP66 & IP68
Sealing Material	Chloroprene Gasket -40°C to +100°C / Silicone Gasket -60°C to +180°C
Applications	Grup II-III / Gas & Dust, Zone 1-2 & 21-22 Gas Group IIA, IIB, IIC / Dust Group IIIA, IIIB, IIIC
Optional Accessories	Lock Nut, Earth Tag, IP Washer Gasket

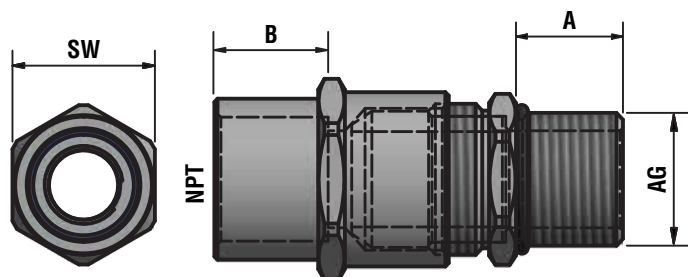


MSM Code	Flexible Type Input Size	Metric Output Size	Cable Clamping Range (mm)	SW (mm)	A (mm)	AG (mm)	H (mm)	Weight (kg)
M-SBR1M	M...-10 - 1/4"	M12x1,5	4,0 ÷ 8,0	22	16	12	32,0	0,049
M-SBR2M	M...-13 - 3/8"	M16x1,5	5,0 ÷ 10,0	26	16	16	35,5	0,075
M-SBR3M	M...-16 - 1/2"	M20x1,5	6,0 ÷ 12,0	30	16	20	36,5	0,098
M-SBR4M	M...-21 - 3/4"	M25x1,5	13,0 ÷ 18,0	36	16	25	41,0	0,160
M-SBR5M	M...-26 - 1"	M32x1,5	18,0 ÷ 25,0	45	20	32	48,5	0,275
M-SBR6M	M...-35 - 1 1/4"	M40x1,5	22,0 ÷ 32,0	55	20	40	54,0	0,420
M-SBR7M	M...-40 - 1 1/2"	M50x1,5	30,0 ÷ 38,0	60	20	50	56,5	0,508
M-SBR8M	M...-52 - 2"	M63x1,5	34,0 ÷ 44,0	80	20	63	63,0	0,957

MSM Code	Flexible Type Input Size	NPT Output Size	Cable Clamping Range (mm)	SW (mm)	A (mm)	AG (mm)	H (mm)	Weight (kg)
M-SBR1N	M...-10 - 1/4"	1/4"	4,0 ÷ 8,0	22	16	13,176	32,0	0,052
M-SBR2N	M...-13 - 3/8"	3/8"	5,0 ÷ 10,0	26	16	17,145	35,5	0,077
M-SBR3N	M...-16 - 1/2"	1/2"	6,0 ÷ 12,0	30	16	21,336	36,5	0,102
M-SBR4N	M...-21 - 3/4"	3/4"	13,0 ÷ 18,0	36	16	26,670	41,0	0,164
M-SBR5N	M...-26 - 1"	1"	18,0 ÷ 25,0	45	20	33,401	48,5	0,290
M-SBR6N	M...-35 - 1 1/4"	1 1/4"	22,0 ÷ 32,0	55	20	42,164	54,0	0,440
M-SBR7N	M...-40 - 1 1/2"	1 1/2"	30,0 ÷ 38,0	60	20	47,800	56,5	0,516
M-SBR8N	M...-52 - 2"	2"	34,0 ÷ 44,0	80	20	60,325	63,0	0,970

MSM Code	Size Code	Male Thread	Material	Sealing Gasket	Accessories			Code Example
	2 : M16x1,5 3 : M20x1,5	M: Metric N: NPT	B: Brass BN: Brass Nickel Plated	S: Silicone C: Chloroprene	Lock Nut	Earth Tag	IP Washer Gasket	
M-SBR	2	M	BN	C	L	E	W	M-SBR2MBNCL

M-DBR TYPE EX-PROOF IMC & RSC TYPE RIGID CONDUIT CONNECTORS



Technical Details

Type	IMC & RSC Type Rigid Conduit Connectors - Metric & NPT Thread
Classification	Ex I M2 Ex db/eb I Mb / II 2G Ex db/eb IIC Gb / II 1D Ex tb IIIC Da
Certificate	IEP 20 ATEX 0820X / Directive 2014/34/EU
Material	MS 58 Brass, Nickel Plated Over Brass
Standards	EN 60079-0 / EN 60079-1 / EN 60079-7 / EN 60079-31
IP standard	EN 60529 IP66 & IP68
Sealing Material	Chloroprene Gasket -40°C to +100°C / Silicone Gasket -60°C to +180°C
Applications	Grup II-III / Gas & Dust, Zone 1-2 & 21-22 Gas Group IIA, IIB, IIC / Dust Group IIIA, IIIB, IIIC
Optional Accessories	Lock Nut, Earth Tag, IP Washer Gasket

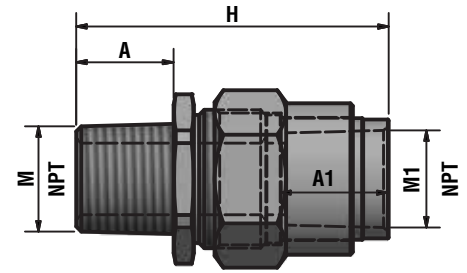
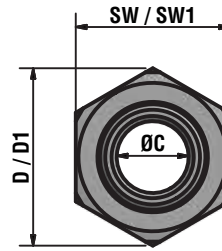


MSM Code	IMC&RSC Cond. Thread Size	Metric Output Size	Cable Clamping Range (mm)	SW (mm)	AG (mm)	A (mm)	B (mm)	Weight (kg)
M-DBR3M	1/2"	M20x1,5	6,0 ÷ 12,0	27	20	16	16	0,098
M-DBR4M	3/4"	M25x1,5	13,0 ÷ 18,0	32	25	16	16	0,160
M-DBR5M	1"	M32x1,5	18,0 ÷ 25,0	42	32	16	16	0,275
M-DBR6M	1 1/4"	M40x1,5	22,0 ÷ 32,0	50	40	18	18	0,420
M-DBR7M	1 1/2"	M50x1,5	30,0 ÷ 38,0	60	50	18	18	0,508
M-DBR8M	2"	M63x1,5	34,0 ÷ 44,0	70	63	20	20	0,957
M-DBR9M	2 1/2"	M75x1,5	48,0 ÷ 57,0	85	---	22	22	---
M-DBR10M	3"	M80x1,5	56,0 ÷ 70,0	100	---	25	25	---
M-DBR11M	4"	M100x1,5	70,0 ÷ 89,0	125	---	25	25	---

MSM Code	IMC&RSC Cond. Thread Size	NPT Output Size	Cable Clamping Range (mm)	SW (mm)	AG (mm)	A (mm)	B (mm)	Weight (kg)
M-DBR3N	1/2"	1/2"	6,0 ÷ 12,0	27	21,336	16	16	0,102
M-DBR4N	3/4"	3/4"	13,0 ÷ 18,0	32	26,670	16	16	0,164
M-DBR5N	1"	1"	18,0 ÷ 25,0	42	33,401	16	16	0,290
M-DBR6N	1 1/4"	1 1/4"	22,0 ÷ 32,0	50	42,164	18	18	0,440
M-DBR7N	1 1/2"	1 1/2"	30,0 ÷ 38,0	60	47,800	18	18	0,516
M-DBR8N	2"	2"	34,0 ÷ 44,0	70	60,325	20	20	0,970
M-DBR9N	2 1/2"	2 1/2"	48,0 ÷ 57,0	85	---	22	22	---
M-DBR10N	3"	3"	56,0 ÷ 70,0	100	---	25	25	---
M-DBR11N	4"	4"	70,0 ÷ 89,0	125	---	25	25	---

MSM Code	Size Code	Male Thread	Material	Sealing Gasket	Accessories			Code Example
	2 : M16x1,5 3 : M20x1,5	M: Metric N: NPT	B: Brass BN: Brass Nickel Plated	S: Silicone C: Chloroprene	Lock Nut	Earth Tag	IP Washer Gasket	
M-DBR	3	M	BN	C	L	E	W	M-DBR2MBNCL

M-BMF.. / M-BFF.. / M-BMM.. TYPE EX-PROOF CONDUIT UNIONS (THREE PIECES)



M-BFF.. (Female-Female) M-BMF.. (Male-Female) M-BMM.. (Male-Male)

Technical Details

Type	Conduit Unions (Three Pieces)
Classification	Ex I M2 Ex db I Mb / I M2 Ex eb I Mb / II 1D Ex ta IIIC Da Ex II 2G Ex db IIC Gb / II 2G Ex eb II Gb
Certificate	IEP 20 ATEX 0762U / Directive 2014/34/EU
Material	Galvanized Steel
Standards	EN 60079-0 / EN 60079-1 / EN 60079-7 / EN 60079-31
IP standard	EN 60529 IP66
Applications	Grup II-III / Gas & Dust, Zone 1-2 & 21-22 Gas Grup IIA, IIB, IIC / Dust Grup IIIA, IIIB, IIIC
Optional Accessories	Lock Nut, Earth Tag, IP Washer Gasket, Silicone Gasket

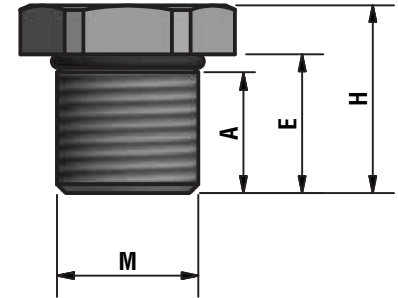
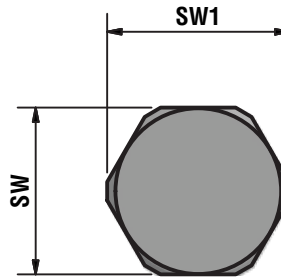


MSM Code	Product Size M (mm)		Product Size M1 (mm)		Cable Dia. Size C (mm)	Thread Length (mm)		Spanner Width SW/D (mm)				Height H (mm)	Weight (kg)
	NPT	Size	NPT	Size		A	A1	SW	D	SW1	D1		
M-BMF1N	1/2"	21,336	1/2"	20,1115	14,00	19,00	16,00	30,00	33,00	30,00	34,50	61,00	0,158
M-BMF2N	3/4"	26,670	3/4"	25,4435	19,00	20,00	20,00	36,00	40,00	36,00	41,50	60,00	0,212
M-BMF3N	1"	33,401	1"	31,9100	25,00	25,00	23,00	41,00	47,00	41,00	47,00	70,00	0,284
M-BMF4N	1 1/4"	42,164	1 1/4"	40,6730	32,00	28,00	25,00	50,00	56,00	55,00	63,00	81,00	0,549
M-BMF5N	1 1/2"	47,800	1 1/2"	46,3090	39,00	28,00	26,00	55,00	62,00	60,00	69,00	85,00	0,567
M-BMF6N	2"	60,325	2"	58,8340	50,00	30,00	29,00	70,00	79,00	75,00	85,00	91,00	0,982
M-BMF7N	2 1/2"	73,025	2 1/2"	70,8817	65,00	33,00	31,00	91,00	100,00	91,00	100,00	91,00	1,386

MSM Code	Product Size M (mm)		Product Size M1 (mm)		Cable Dia. Size C (mm)	Thread Length (mm)		Spanner Width SW/D (mm)				Height H (mm)	Weight (kg)
	NPT	Size	NPT	Size		A	A1	SW	D	SW1	D1		
M-BFF1N	1/2"	20,1115	1/2"	20,1115	14,00	19,00	16,00	30,00	33,00	30,00	34,50	42,00	0,122
M-BFF2N	3/4"	25,4435	3/4"	25,4435	19,00	20,00	20,00	36,00	40,00	36,00	41,50	46,00	0,177
M-BFF3N	1"	31,9100	1"	31,9100	25,00	25,00	23,00	41,00	47,00	41,00	47,00	56,00	0,248
M-BFF4N	1 1/4"	40,6730	1 1/4"	40,6730	32,00	28,00	25,00	50,00	56,00	55,00	63,00	65,00	0,460
M-BFF5N	1 1/2"	46,3090	1 1/2"	46,3090	39,00	28,00	26,00	55,00	62,00	60,00	69,00	68,00	0,475
M-BFF6N	2"	58,8340	2"	58,8340	50,00	30,00	29,00	70,00	79,00	75,00	85,00	74,50	0,889
M-BFF7N	2 1/2"	70,8817	2 1/2"	70,8817	65,00	33,00	31,00	91,00	100,00	91,00	100,00	76,00	1,254

MSM Code	Product Size M (mm)		Product Size M1 (mm)		Cable Dia. Size C (mm)	Thread Length (mm)		Spanner Width SW/D (mm)				Height H (mm)	Weight (kg)
	NPT	Size	NPT	Size		A	A1	SW	D	SW1	D1		
M-BMM1N	1/2"	21,336	1/2"	21,336	14,00	19,00	19,00	30,00	33,00	30,00	34,50	77,50	0,194
M-BMM2N	3/4"	26,670	3/4"	26,670	19,00	20,00	20,00	36,00	40,00	36,00	41,50	76,00	0,267
M-BMM3N	1"	33,401	1"	33,401	25,00	25,00	25,00	41,00	47,00	41,00	47,00	88,00	0,366
M-BMM4N	1 1/4"	42,164	1 1/4"	42,164	32,00	28,00	28,00	50,00	56,00	55,00	63,00	96,00	0,684
M-BMM5N	1 1/2"	47,800	1 1/2"	47,800	39,00	28,00	28,00	55,00	62,00	60,00	69,00	98,00	0,707
M-BMM6N	2"	60,325	2"	60,325	50,00	30,00	30,00	70,00	79,00	75,00	85,00	104,50	1,169
M-BMM7N	2 1/2"	73,025	2 1/2"	73,025	65,00	33,00	33,00	91,00	100,00	91,00	100,00	120,00	1,748

M-PLG TYPE EX-PROOF BLIND PLUGS



Technical Details

Type	Blind Plugs Metric & NPT Thread
Classification	Ex I M2 Ex db I Mb / I M2 Ex eb I Mb / II 1D Ex ta IIIC Da / II 2G Ex db IIC Gb / II 2G Ex eb II Gb
Certificate	IEP 19 ATEX 0694X / Directive 2014/34/EU
Material	MS 58 Brass, Nickel Plated Over Brass
Standards	EN 60079-0 / EN 60079-1 / EN 60079-7 / EN 60079-31
IP standard	EN 60529 IP66 & IP68
Sealing Material	Chloroprene Gasket -40°C to +100°C / Silicone Gasket -60°C to +180°C
Applications	Grup II-III / Gas & Dust, Zone 1-2 & 21-22 Gas Group IIA, IIB, IIC / Dust Group IIIA, IIIB, IIIC
Optional Accessories	Lock Nut, Earth Tag, IP Washer Gasket

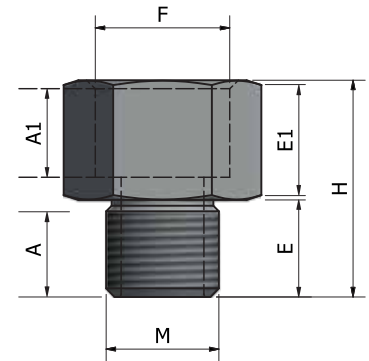
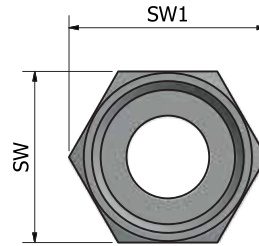


MSM Code	Metric Size	Thread Piece A	Thread Length E (mm)	Height H (mm)	Spanner Width SW (mm)	Outer Dia. SW1 (mm)	Lock Nut Code	Earth Tag Code	IP Washer Code	Weight (kg)
M-PLG1M	M12x1,5	8	15	22	17	19	LN-1M	ERT-1M	IPW-1M	0,028
M-PLG2M	M16x1,5	8	15	22	22	24	LN-2M	ERT-2M	IPW-2M	0,034
M-PLG3M	M20x1,5	8	15	22	24	26	LN-3M	ERT-3M	IPW-3M	0,047
M-PLG4M	M25x1,5	7	15	22	30	33	LN-4M	ERT-4M	IPW-4M	0,074
M-PLG5M	M32x1,5	7	15	22	36	40	LN-5M	ERT-5M	IPW-5M	0,110
M-PLG6M	M40x1,5	7	15	22	45	50	LN-6M	ERT-6M	IPW-6M	0,165
M-PLG7M	M50x1,5	7	15	22	55	61	LN-7M	ERT-7M	IPW-7M	0,230
M-PLG8M	M63x1,5	7	15	22	70	77	LN-8M	ERT-8M	IPW-8M	0,343

MSM Code	NPT Size	Thread Piece A	Thread Length E (mm)	Height H (mm)	Spanner Width SW (mm)	Outer Dia. SW1 (mm)	Lock Nut Code	Earth Tag Code	IP Washer Code	Weight (kg)
M-PLG1N	1/4"	8,0 / 18,0	15	22	16	18	LN-1N	ERT-1N	IPW-1N	0,028
M-PLG2N	3/8"	8,0 / 18,0	15	22	20	22	LN-2N	ERT-2N	IPW-2N	0,034
M-PLG3N	1/2"	7,0 / 18,0	15	22	24	26	LN-3N	ERT-3N	IPW-3N	0,047
M-PLG4N	3/4"	7,0 / 18,0	15	22	27	30	LN-4N	ERT-4N	IPW-4N	0,074
M-PLG5N	1"	6,0 / 18,0	15	22	35	38	LN-5N	ERT-5N	IPW-5N	0,110
M-PLG6N	1 1/4"	6,0 / 18,0	15	22	45	50	LN-6N	ERT-6N	IPW-6N	0,165
M-PLG7N	1 1/2"	6,0 / 18,0	15	22	50	55	LN-7N	ERT-7N	IPW-7N	0,230
M-PLG8N	2"	6,0 / 18,0	15	22	65	72	LN-8N	ERT-8N	IPW-8N	0,343

MSM Code	Size Code	Male Thread	Material	Sealing Gasket	Accessories			Code Example
	2 : M16x1,5 3 : M20x1,5	M: Metric N: NPT	B: Brass BN: Brass Nickel Plated	S: Silicone C: Chloroprene	Lock Nut	Earth Tag	IP Washer Gasket	
M-PLG	2	M	BN	C	L	E	W	M-PLG2MBNCL

M-REB TYPE EX-PROOF REDUCERS



Technical Details

Type	REB Type Reducers - Metric & NPT Thread
Classification	II 2GD Ex d IIC Gb / Ex e IIC Gb / Ex tb IIIC Db
Certificate	IEP 19 ATEX 0693X / Directive 2014/34/EU
Material	MS 58 Brass, Nickel Plated Over Brass
Standards	EN 60079-0 / EN 60079-1 / EN 60079-7 / EN 60079-31
IP standard	EN 60529 IP66 & IP68
Sealing Material	Chloroprene Gasket -40°C to +100°C / Silicone Gasket -60°C to +180°C
Applications	Grup II-III / Gas & Dust, Zone 1-2 & 21-22 Gas Group IIA, IIB, IIC / Dust Group IIIA, IIIB, IIIC
Optional Accessories	Lock Nut, Earth Tag, IP Washer Gasket

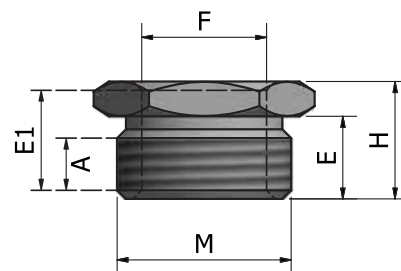
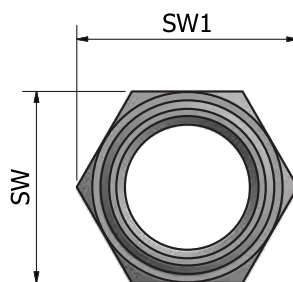


MSM Code	Male Metric Size (M)	Female Metric Size (F)	Thread Piece A	Thread Piece A1	Thread Length E (mm)	Thread Length E1 (mm)	Height H (mm)	Spanner Width SW (mm)	Outer Dia. SW1 (mm)	Weight (kg)
M-REB1M2M	M12x1,5	M16x1,5	8	8	15	15	34	22	24,0	0,00
M-REB2M3M	M16x1,5	M20x1,5	8	8	15	15	34	25	27,5	0,00
M-REB3M4M	M20x1,5	M25x1,5	8	8	15	15	34	30	33,0	0,00
M-REB4M5M	M25x1,5	M32x1,5	8	8	15	15	34	36	40,0	0,00
M-REB5M6M	M32x1,5	M40x1,5	8	10	15	18	37	45	50,0	0,00
M-REB6M7M	M40x1,5	M50x1,5	10	10	15	18	41	55	61,0	0,00
M-REB7M8M	M50x1,5	M63x1,5	10	10	18	18	41	70	77,0	0,00

MSM Code	Male NPT Size (M)	Female NPT Size (F)	Thread Piece A	Thread Piece A1	Thread Length E (mm)	Thread Length E1 (mm)	Height H (mm)	Spanner Width SW (mm)	Outer Dia. SW1 (mm)	Weight (kg)
M-REB1N2N	1/4"	3/8"	8 / 18	8 / 18	15	15	34	20	22,0	0,00
M-REB2N3N	3/8"	1/2"	8 / 18	8 / 18	15	15	34	25	27,5	0,00
M-REB3N4N	1/2"	3/4"	7 / 14	7 / 14	15	15	34	30	33,0	0,00
M-REB4N5N	3/4"	1"	6 / 14	6 / 14	15	15	34	36	40,0	0,00
M-REB5N6N	1"	1 1/4"	7 / 11,5	7 / 11,5	15	18	37	45	50,0	0,00
M-REB6N7N	1 1/4"	1 1/2"	7 / 11,5	7 / 11,5	18	18	41	55	61,0	0,00
M-REB7N8N	1 1/2"	2"	7 / 11,5	7 / 11,5	18	18	41	65	72,0	0,00

MSM Code	Male Size	Thread Type	Female Size	Thread Type	Material	Sealing Gasket	Code Example
	1: 1/4" 2: 3/8"	N: NPT M: Metric	2: 3/8" 3: 1/2"	N: NPT M: Metric	B: Brass BN: Brass Nickel Plated	S: Silicone C: Chloroprene	
M-REB	1	N	2	N	BN	S	M-REB1N2NBNS

M-RE TYPE EX-PROOF ADAPTER



Technical Details

Type	RE Tip Adapter - Metric & NPT Thread
Classification	Ex I M2 Ex db/eb I Mb / II 2G Ex db/eb IIC Gb / II 1D Ex tb IIIC Da
Certificate	IEP 20 ATEX 0693X / Directive 2014/34/EU
Material	MS 58 Brass, Nickel Plated Over Brass
Standards	EN 60079-0 / EN 60079-1 / EN 60079-7 / EN 60079-31
IP standard	EN 60529 IP66 & IP68
Sealing Material	Chloroprene Gasket -40°C to +100°C / Silicone Gasket -60°C to +180°C
Applications	Grup II-III / Gas & Dust, Zone 1-2 & 21-22 Gas Group IIA, IIB, IIC / Dust Group IIIA, IIIB, IIIC
Optional Accessories	Lock Nut, Earth Tag, IP Washer Gasket



MSM Code	Male Metric Size (M)	Female Metric Size (F)	Thread Piece A	Thread Length A (mm)	Thread Length A1 (mm)	Height H (mm)	Spanner Width SW (mm)	Outer Dia. SW1 (mm)	Weight (kg)
M-RE2M1M	M16x1,5	M12x1,5	8	15	18	20	22	24	0,022
M-RE3M2M	M20x1,5	M16x1,5	8	15	18	20	25	27,5	0,025
M-RE4M3M	M25x1,5	M20x1,5	8	15	18	20	30	33	0,037
M-RE5M4M	M32x1,5	M25x1,5	8	15	18	20	36	40	0,060
M-RE6M5M	M40x1,5	M32x1,5	8	15	22	24	45	50	0,106
M-RE7M6M	M50x1,5	M40x1,5	9	15	22	24	55	61	0,164
M-RE8M7M	M63x1,5	M50x1,5	9	15	22	24	70	77	0,271

MSM Code	Male NPT Size (M)	Female NPT Size (F)	Thread Piece A	Thread Length A (mm)	Thread Length A1 (mm)	Height H (mm)	Spanner Width SW (mm)	Outer Dia. SW1 (mm)	Weight (kg)
M-RE2N1N	3/8"	1/4"	9 / 18	15	18	20	22	24	0,022
M-RE3N2N	1/2"	3/8"	7 / 14	15	18	20	25	27,5	0,028
M-RE4N3N	3/4"	1/2"	7 / 14	15	18	20	30	33	0,042
M-RE5N4N	1"	3/4"	6 / 11,5	15	18	20	36	40	0,064
M-RE6N5N	1 1/4"	1"	7 / 11,5	18	22	24	45	50	0,118
M-RE7N6N	1 1/2"	1 1/4"	7 / 11,5	18	22	24	55	61	0,129
M-RE8N7N	2"	1 1/2"	7 / 11,5	18	22	24	65	72	0,240

MSM Code	Male Size	Thread Type	Female Size	Thread Type	Material	Sealing Gasket	Code Example
	2: M16x1,5 3: M20x1,5	M: Metric N: NPT	1: M12x1,5 2: M16x1,5	M: Metric N: NPT	B: Brass BN: Brass Nickel Plated	S: Silicone C: Chloroprene	
M-RE	2	M	1	M	BN	S	M-RE2M1MBNS

EX-PROOF SEALING FITTINGS



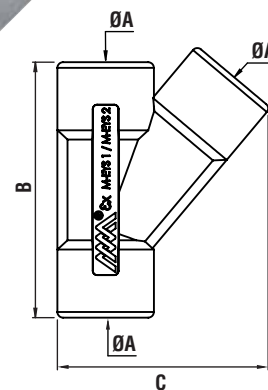
Classification:	Group II	Category 2G 2D
Installation:	Zone 1 / 2 (Gas)	Zone 21 / 22 (Dust)
Marking:	II 2G Ex db IIC Gb	II 2D Ex tb IIIC Db
Standards:	EN 60079-0; EN 60079-1; EN 60079-7; EN 60079-31	

Directive:	2014/34/EU
Certification:	IEP 21 ATEX 0910U
Degree Of Protection:	IP66
Ambient Temperature:	-40°C ÷ +100°C

Mechanical Features

Body: Copper-Free Aluminum
Entry: NPT Thread ANSI B1.20.1
 Optional;
 GAS UNI ISO 228-1
 UNI ISO 7/1 - METRIC ISO 261/965

Sealing Compound	Weight (gr)
MCK 1000+MX	1000



Technical Features

MSM Code NPT	NPT Size ØA	MSM Code Metric	Metric Size ØA	B (mm)	C (mm)	Sealing Compound (gr)	Weight (kg)
M-EYS1N	1/2" NPT	M-EYS1M	M20x1,5	90	74	50	0,150
M-EYS2N	3/4" NPT	M-EYS2M	M25x1,5	90	74	50	0,200

PREPARATION OF THE COMPOUND

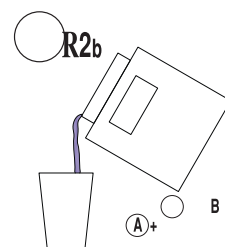
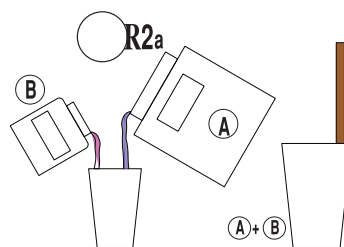
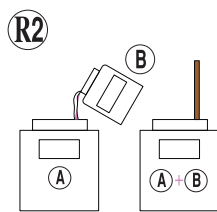
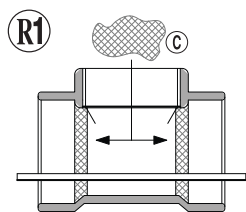


Figure 1: Open the blind plug of the stopper and fill it tightly with fiber rope so that there are no gaps in it.

Figure 2: Mix the resin in the jar, pour catalyst B into jar A and stir for 2 minutes.

Figure 2a: For small applications, mix the required dose of resin A and catalyst B (100 A / 20 B) in a certain proportion.

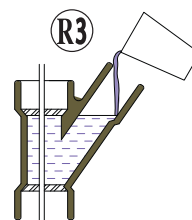
Figure 2b: In small applications, choose to mix in a small box.

Figure 3: Fill the mixture to the level indicated in the figure and close the blind plug firmly after the process is finished.

The storage time of the prepared mixture is 15 min. The approximate freezing time in the stopper of the mixture is 36 hr.

Note: The recommended mixing temperature of the medium is +10°C +20°C.

Areas of use: Cable pulling is a compound liquid prepared by mixing after testing and checks are completed.



Compound material: 800g resin, 160g Catalyst and 40g Fiber rope consists of three parts.

Note: For detailed information and ATEX documents of all our Exproof products visit our website "www.exproof.info"

EX-PROOF JUNCTION BOXES

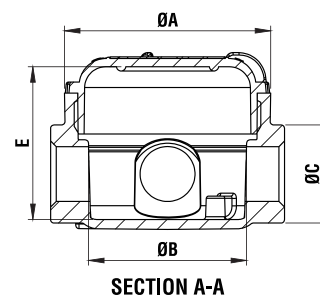
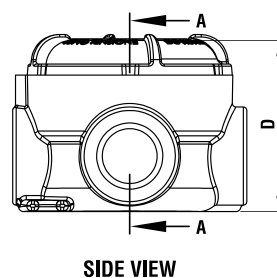
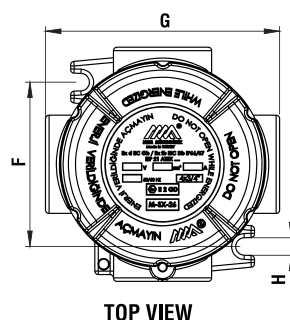


Classification:	Group II	Category 2G 2D
Installation:	Zone 1 / 2 (Gas)	Zone 21 / 22 (Dust)
Marking:	II 2G Ex db IIC T6 Gb	II 2D Ex tb IIIC T85°C Db
Standards:	EN 60079-0; EN 60079-1; EN 60079-7; EN 60079-31	

Directive:	2014/34/EU
Certification:	IEP 21 ATEX 0909X
Degree Of Protection:	IP66 / IP67
Ambient Temperature:	-60°C ÷ +130°C

Mechanical Features

Body:	Copper-Free Aluminum
Screw:	Stainless steel
Gasket:	O-ring, Neoprene
Entry:	NPT Thread ANSI B1.20.1
	Optional;
	GAS UNI ISO 228-1
	UNI ISO 7/1
	METRIC ISO 261/965



Electrical Features

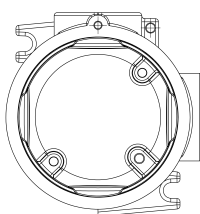
Rated voltage:	750 V
Rated frequency:	50 / 60 Hz
Rated current:	8 - 175 (A)
Max. current density:	2.5 - 6.6 (A/mm ²)
Terminal cross-sectional area:	1.5; 2.5; 4; 6; 10; 16; 25; 35; 70 (mm ²)

Technical Features

TYPE	ØA (mm)	ØB (mm)	ØC (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Weight (kg)
M-S.-16	88	73	42	75	65	70	100	7	0,60
M-S.-26	88	73	42	75	65	70	100	7	0,60
M-S.-36	88	73	42	75	65	70	100	7	0,60

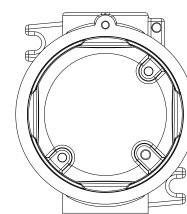
M-SL.. SERIES (2 WAY)

NPT Code	NPT Size	Metric Code	Metric Size
M-SL-16N	1/2"	M-SL-16M	M16x1,5
M-SL-26N	3/4"	M-SL-26M	M20x1,5
M-SL-36N	1"	M-SL-36M	M25x1,5



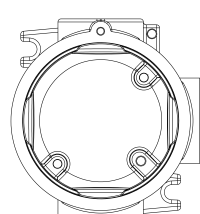
M-SC.. SERIES (2 WAY)

NPT Code	NPT Size	Metric Code	Metric Size
M-SC-16N	1/2"	M-SC-16M	M16x1,5
M-SC-26N	3/4"	M-SC-26M	M20x1,5
M-SC-36N	1"	M-SC-36M	M25x1,5



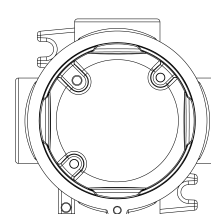
M-ST.. SERIES (3 WAY)

NPT Code	NPT Size	Metric Code	Metric Size
M-ST-16N	1/2"	M-ST-16M	M16x1,5
M-ST-26N	3/4"	M-ST-26M	M20x1,5
M-ST-36N	1"	M-ST-36M	M25x1,5



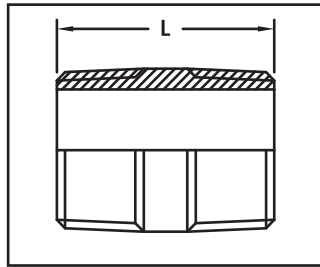
M-SX.. SERIES (4 WAY)

NPT Code	NPT Size	Metric Code	Metric Size
M-SX-16N	1/2"	M-SX-16M	M16x1,5
M-SX-26N	3/4"	M-SX-26M	M20x1,5
M-SX-36N	1"	M-SX-36M	M25x1,5



Notes: According to request, different productions can be made on the same junction box in thread sizes of 1/2", 3/4" and 1".
For detailed information and ATEX documents of all our Exproof products visit our website "www.exproof.info"

M-NP TYPE EX NIPPLES

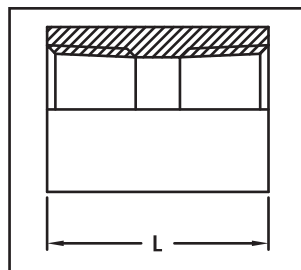


Technical Features

Type	Nipples NPT Thread
Classification	Ex I M2 Ex db I Mb / I M2 Ex eb I Mb / II 1D Ex ta IIIC Da II 2G Ex db IIC Gb / II 2G Ex eb II Gb
Certificate	IEP 21 ATEXX / Directive 2014/34/EU
Material	Galvanized Steel
Thread Type	NPT Thread ANSI B1.20.1
Standards	EN 60079-0 / EN 60079-1 / EN 60079-7 / EN 60079-31
IP standard	EN 60529 IP66
Applications Area	Grup II-III / Gas & Dust, Zone 1-2 & 21-22 Gas Grup IIA, IIB, IIC / Dust Grup IIIA, IIIB, IIIC

MSM Code	NPT Size	Lenght L (mm)	Weight Kg
M-NP1N	1/2"	48	0,05
M-NP2N	3/4"	48	0,06
M-NP3N	1"	60	0,10
M-NP4N	1 1/4"	55	0,14
M-NP5N	1 1/2"	55	0,15
M-NP6N	2"	55	0,20
M-NP7N	2 1/2"	68	0,45
M-NP8N	3"	68	0,70
M-NP10N	4"	68	1,00

M-EM TYPE EX COUPLING



Technical Features

Type	Coupling NPT Thread
Classification	Ex I M2 Ex db I Mb / I M2 Ex eb I Mb / II 1D Ex ta IIIC Da II 2G Ex db IIC Gb / II 2G Ex eb II Gb
Certificate	IEP 21 ATEXX / Directive 2014/34/EU
Material	Galvanized Steel
Thread Type	NPT Thread ANSI B1.20.1
Standards	EN 60079-0 / EN 60079-1 / EN 60079-7 / EN 60079-31
IP standard	EN 60529 IP66
Applications Area	Grup II-III / Gas & Dust, Zone 1-2 & 21-22 Gas Grup IIA, IIB, IIC / Dust Grup IIIA, IIIB, IIIC

MSM Code	NPT Size	Lenght L (mm)	Weight Kg
M-EM1N	1/2"	39	0,09
M-EM2N	3/4"	39	0,08
M-EM3N	1"	51	0,15
M-EM4N	1 1/4"	51	0,27
M-EM5N	1 1/2"	51	0,27
M-EM6N	2"	51	0,45
M-EM7N	2 1/2"	65	0,65
M-EM8N	3"	65	0,80
M-EM10N	4"	65	1,00

**A T E X C e r t i f i e d
Ex-Proof Electric Materials**

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EAC

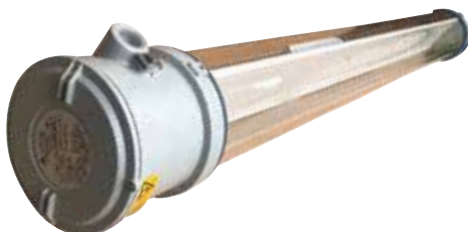
CE

- ▶ Ex-Proof Fluorescent Fixtures
- ▶ Ex-Proof Lighting Fixtures
- ▶ Ex-Proof Floodlights
- ▶ Ex-Proof Portable Lamps
- ▶ Ex-Proof Zone 2 Fixtures
- ▶ Ex-Proof Emergency Fixtures

- ▶ Ex-Proof Conduits Fittings
- ▶ Ex-Proof Enclosures Boxes & J.Boxes
- ▶ Ex-Proof Switches
- ▶ Ex-Proof Plugs & Sockets
- ▶ Ex-Proof Warning Systems
- ▶ Ex-Proof Other Products

EX-PROOF FLUORESCENT FIXTURES WITH METAL BODY, CEILING TYPE

FLF SERIES, ELECTRONIC BALLAST



BAY51-D SERIES, ELECTRONIC BALLAST



RMS SERIES, STAINLESS STEEL BODY



EVFC SERIES, MECHANICAL BALLAST



EX-PROOF FLUORESCENT FIXTURES WITH POLYESTER BODY, CEILING TYPE

BAY51-Q SERIES, ELECTRONIC BALLAST



eLLK 92 SERIES, ELECTRONIC BALLAST



AVFC SERIES, ELECTRONIC BALLAST



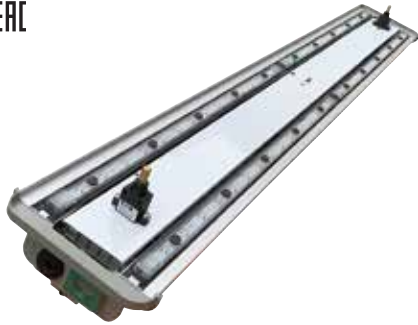
EXEL SERIES, ELECTRONIC BALLAST



Note: For detailed information and ATEX documents of all our Exproof products visit our website “www.exproof.info”

EX-PROOF LED FLUORESCENT FIXTURES

HLL LED SERIES (POLYESTER BODY)



RB_LED SERIES (POLYESTER BODY)



EXLIN LED SERIES (POLYESTER BODY)



FLFL LED SERIES (ALUMINUM BODY)



EX-PROOF LIGHTING FIXTURES

BDD81 SERIES, WITHOUT BALLAST



EVA SERIES, WITHOUT BALLAST



HRD-150 SERIES, WITHOUT BALLAST



BDD91 SERIES, WITH BALLAST



Note: For detailed information and ATEX documents of all our Exproof products visit our website “www.exproof.info”

EX-PROOF EMERGENCY LIGHTING FIXTURES

BAYD SERIES, EXIT



EVF18 SERIES, EXIT



LFED SERIES, EXIT



EXIT SERIES, EXIT



EX-PROOF FLOODLIGHTS

BAT53 SERIES



BAT86 SERIES, LED



SLED SERIES, LED



CZ087 SERIES, LED



Note: For detailed information and ATEX documents of all our Exproof products visit our website “www.exproof.info”

EX-PROOF ZONE-2 LIGHTING FIXTURES

BNY81 SERIES (POLYESTER BODY)



SVN LED SERIES (POLYESTER BODY)



HRNT SERIES FLOODLIGHT



HRND SERIES LIGHTING FIXTURES



EX-PROOF PORTABLE LAMPS AND TORCHES

BSX SERIES, PORTABLE



EVP SERIES, PORTABLE



H-251A SERIES, RECHARGEABLE TORCHES



MINI SERIES, TORCHES



Note: For detailed information and ATEX documents of all our Exproof products visit our website “www.exproof.info”

EX-PROOF CONDUIT & FITTINGS

SPH SERIES, FLEXIBLE CONDUITS



IMC & RSC RIGID CONDUITS



MCK SERIES SEALING COMPOUND



EYS / EZS SERIES SEALING FITTINGS



EX-PROOF JUNCTION BOXES & ELBOWS

S.. SERIES JUNCTION BOXES



ELF / LBH SERIES ELBOWS



GUB.. SERIES JUNCTION BOXES



SFT - EMHC.. SERIES GLASS EQUIPMENT BOXES



Note: For detailed information and ATEX documents of all our Exproof products visit our website “www.exproof.info”

EX-PROOF ENCLOSURE BOXES

EJB.. SERIES ENCLOSURE BOXES (CORTEM)



EJB.. SERIES ENCLOSURE BOXES (COSIME)



PLUG-SOCKET COMBINATION BOX



DMTB SERIES TANK GROUNDING UNIT



EX-PROOF TERMINAL BOXES

AJB.. SERIES ALUMINUM TERMINAL BOXES



SA, SAG.. SERIES ALUMINUM TERMINAL BOXES



TEX.. SERIES STAINLESS STEEL TERMINAL BOXES



GWR.. / DMD.. SERIES GRP TERMINAL BOXES



Note: For detailed information and ATEX documents of all our Exproof products visit our website “www.exproof.info”

EX-PROOF CONTROL UNIT & SWITCHES

BCZ.. SERIES ALUMINUM CONTROL UNIT



BZA.. SERIES GRP CONTROL UNIT



EFD.. SERIES SWITCHES



FCC.. SERIES LIMIT SWITCHES



EX-PROOF PLUGS - SOCKETS

BCZ85 SERIES ALUMINUM PLUG-SOCKETS



PY-SPY SERIES ALUMINUM PLUG-SOCKETS



FSQ-BP SERIES ALUMINUM PLUG-SOCKETS



BCZ8060 SERIES POLYESTER PLUG-SOCKETS



Note: For detailed information and ATEX documents of all our Exproof products visit our website “www.exproof.info”

EX-PROOF WARNING SYSTEMS

BBJ81 SERIES CAUTION LIGHT WITH SIREN



BJD81 SERIES CAUTION LIGHT



ETH SERIES ELECTRONICAL SIREN



GAS, FLAME, HEAT, SMOKE DETECTORS



EX-PROOF OTHER PRODUCTS

PHONE / CAMERA



CRANE CONTROL BOX



MOTOR



FAN



Note: For detailed information and ATEX documents of all our Exproof products visit our website “www.exproof.info”

(BELONGS TO MSM BRANDED PRODUCTS)

IEP ENERGY PETROLEUM INSTITUTE **IEP ATEX**

(1) **EU-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

(3) EU - Type Examination Certificate Number: IEP 19 ATEX 0708X

(4) Product: M-VEN-M and M-VEN-N Series Unarmoured Cable Glands

(5) Firm Name: MSM Mühendislik Elektronik San. Tic. Ltd. Şti.

(6) Firm Address: Barbaros Mah. Evren Cad. No : 38 Ataşehir / İSTANBUL

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gazları, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report No : IEP.Rp.Ex.10-1492 date 24.06.2019.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 60079-0:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

Ex I M2 Ex db/bb I Mb
II 2G Ex db/bb IIC Gb
II 1D Ex db IIC Da

Responsible Person :
Nurettin Terzioğlu
Head of Certification Body

Date of Issue : 25.06.2019

IEP Uluslararası Enerji Petrol Gazları, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti.
77461 Sok. No:9 K:2Blok:5 - ÜMRANİYE / İSTANBUL / TÜRKİYE
Tel: +90 212 431 17 43 - 4040 fax: +90 212 431 17 30 E-mail: iep@iep.com.tr P:45
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IEP ENERGY PETROLEUM INSTITUTE **IEP ATEX**

(1) **EU-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

(3) EU - Type Examination Certificate Number: IEP 19 ATEX 0719X

(4) Product: M-MERXM and M-MERXN Series Armoured Cable Glands

(5) Firm Name: MSM Mühendislik Elektronik San. Tic. Ltd. Şti.

(6) Firm Address: Barbaros Mah. Evren Cad. No : 38 Ataşehir / İSTANBUL

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gazları, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report No : IEP.Rp.Ex.10-1515 date 16.08.2019.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 60079-0:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

Ex I M2 Ex db/bb I Mb
II 2G Ex db/bb IIC Gb
II 1D Ex db IIC Da

Responsible Person :
Nurettin Terzioğlu
Head of Certification Body

Date of Issue : 19.08.2019

IEP Uluslararası Enerji Petrol Gazları, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti.
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IEP ENERGY PETROLEUM INSTITUTE **IEP ATEX**

(1) **EU-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

(3) EU - Type Examination Certificate Number: IEP 20 ATEX 0792U

(4) Product: M-BMFX, M-BFFX and M-BDMXX Series Three-piece Connection Fittings

(5) Firm Name: MSM Mühendislik Elektronik San. Tic. Ltd. Şti.

(6) Firm Address: Barbaros Mah. Evren Cad. No : 38 Ataşehir / İSTANBUL

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gazları, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report No : IEP.Rp.Ex.10-1665 date 05.02.2020.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 60079-0:2013, EN 60079-1:2014, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

Ex II 2G Ex db IIC Gb
II 2D Ex db IIC Db
I M2 Ex db I Mb, IP 66/67

Responsible Person :
Nurettin Terzioğlu
Head of Certification Body

Date of Issue : 06.02.2020

IEP Uluslararası Enerji Petrol Gazları, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti.
77461 Sok. No:9 K:2Blok:5 - ÜMRANİYE / İSTANBUL / TÜRKİYE
Tel: +90 212 431 17 43 - 4040 fax: +90 212 431 17 30 E-mail: iep@iep.com.tr P:45
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IEP ENERGY PETROLEUM INSTITUTE **IEP ATEX**

(1) **EU-Type Examination Certificate**

(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

(3) EU - Type Examination Certificate Number: IEP 20 ATEX 0820X

(4) Product: M-SBRXM, M-SBRXN and M-DBRXM, M-DBRXN Series Glands

(5) Firm Name: MSM Mühendislik Elektronik San. Tic. Ltd. Şti.

(6) Firm Address: Barbaros Mah. Evren Cad. No : 38 Ataşehir / İSTANBUL

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gazları, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report No : IEP.Rp.Ex.10-1797 date 27.05.2020.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:
EN 60079-0:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

Ex I M2 Ex db/bb I Mb
II 2G Ex db/bb IIC Gb
II 1D Ex db IIC Da

Responsible Person :
Nurettin Terzioğlu
Head of Certification Body

Date of Issue : 28.05.2020

IEP Uluslararası Enerji Petrol Gazları, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti.
77461 Sok. No:9 K:2Blok:5 - ÜMRANİYE / İSTANBUL / TÜRKİYE
Tel: +90 212 431 17 43 - 4040 fax: +90 212 431 17 30 E-mail: iep@iep.com.tr P:45
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(BELONGS TO MSM BRANDED PRODUCTS)

IEP ENERGY PETROLEUM INSTITUTE **IEP ATEX**

(1) EU-Type Examination Certificate

(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

(3) EU - Type Examination Certificate Number: IEP 19 ATEX 6093X

(4) Product: M-REB XMEXM and M-REB XNXX Series Reducers, M-REXMXM and M-REXNXX Series Adapters

(5) Firm Name: MSM Mühendislik ElektroniK San. Tic. Ltd. Şti.

(6) Firm Address: BarbarosMah. Evren Cad. No : 38 Ataşehir / İSTANBUL

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Güvenlik, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr : IEP.Rp.Es.10-1466 date 30.04.2019.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 60079-0:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

**EX I M2 Ex db I Mb / I M2 Ex db I Mb / II 1D Ex ta IIC Gb
II 2G Ex db IIC Gb / II 2G Ex db II Gb**

Responsible Person :
Nurmet Torsigala
Head of Certification Body

Date of Issue : 03.05.2019

IEP Uluslararası Enerji Petrol Güvenlik, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti.
57461 Sok. No:9 K:2Büyükdere - GENİŞ / TÜRKİYE
Tel: +90 212 431 17 40 - faks: +90 212 431 17 36 E-mail: iep@iep.com.tr
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Page 1 / 4

IEP ENERGY PETROLEUM INSTITUTE **IEP ATEX**

(1) EU-Type Examination Certificate

(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

(3) EU - Type Examination Certificate Number: IEP 19 ATEX 0694X

(4) Product: M-PLGXM and M-PLGXN Series Stopping Plugs

(5) Firm Name: MSM Mühendislik ElektroniK San. Tic. Ltd. Şti.

(6) Firm Address: BarbarosMah. Evren Cad. No : 38 Ataşehir / İSTANBUL

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Güvenlik, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr : IEP.Rp.Es.10-1466 date 30.04.2019.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 60079-0:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

**EX I M2 Ex db I Mb / I M2 Ex db I Mb / II 1D Ex ta IIC Gb
II 2G Ex db IIC Gb / II 2G Ex db II Gb**

Responsible Person :
Nurmet Torsigala
Head of Certification Body

Date of Issue : 03.05.2019

IEP Uluslararası Enerji Petrol Güvenlik, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Şti.
57461 Sok. No:9 K:2Büyükdere - GENİŞ / TÜRKİYE
Tel: +90 212 431 17 40 - faks: +90 212 431 17 36 E-mail: iep@iep.com.tr
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(BELONGS TO IMPORTED PRODUCTS)

IEC TYPE EXAMINATION CERTIFICATE

1. ATTESTATION D'EXAMEN CE DE TYPE

2. Appareil ou système de protection destiné à être utilisé en atmosphères explosibles (Directive 94/9/CE)

3. Numéro de l'attestation d'examen CE de type LCIE 09 ATEX 3046

4. Appareil ou système de protection :
Appareil d'éclairage antidéflagrant pour lampes fluorescentes
Type : BAYS1...

5. Demandeur :
Warren Group Co., Ltd
No.555 Baogang Road
Jiading District, Shanghai
201506, P.R. of China

6. Fabricant :
Warren Group Co., Ltd
No.555 Baogang Road
Jiading District, Shanghai
201506, P.R. of China

7. Cet appareil ou système de protection et ses variantes éventuelles acceptées sont décrites dans l'annexe de la présente attestation et dans les documents descriptifs cités en référence.

8. La LCIE, organisme notifié sous la référence 0081 conformément à l'article 9 de la directive 94/9/CE du Parlement européen et du Conseil du 23 mars 1994, certifie que cet appareil ou système de protection est conforme aux exigences essentielles de sécurité et de santé pour la conception et la construction d'appareils et de systèmes de protection destinés à être utilisés en atmosphères explosibles, données dans l'annexe II de la directive. Les résultats des vérifications et essais figurent dans le rapport confidentiel N° 74586-68047507 (PCIC/CT1906060).

9. Le respect des exigences essentielles de sécurité et de santé est assuré par la conformité à :
- p/EN 60079-0 (2007)
- EN 60079-1 (2007)

10. Le signe X lorsqu'il est placé à la suite du numéro de l'attestation, indique que cet appareil ou système de protection est soumis aux conditions applicables pour une utilisation sûre, mentionnées dans l'annexe de la présente attestation.

11. Cette attestation d'examen CE de type concerne uniquement la conception et la construction de l'appareil ou du système de protection spécifiés, conformément à l'annexe II de la directive 94/9/CE. Des exigences supplémentaires de la directive sont applicables pour le processus et la fourniture de l'appareil ou du système de protection. Ces dernières ne sont pas couvertes par la présente attestation.

12. Le marquage de l'appareil ou du système de protection doit comporter les informations détaillées au point 15.

13. Le marquage de l'équipement ou du système de protection doit comporter les informations détaillées au point 15.

Le responsable de certification ATEX
Michel EQUI

IEC TYPE EXAMINATION CERTIFICATE

1. Equipment or protective system intended for use in potentially explosive atmospheres (Directive 94/9/EC)

2. EC type examination certificate number LCIE 09 ATEX 3046

3. Equipment or protective system :
Explosion-proof light fittings for fluorescent lamp
Type : BAYS1...

4. Applicant :
Warren Group Co., Ltd
No.555 Baogang Road
Jiading District, Shanghai
201506, P.R. of China

5. Manufacturer :
Warren Group Co., Ltd
No.555 Baogang Road
Jiading District, Shanghai
201506, P.R. of China

6. This equipment or protective system and any acceptable variations thereto are specified in the schedule to this certificate and the documents therein referred to.

7. LCIE, notified body number 0081 in accordance with article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment or protective system has been found to comply with the essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential report N° 74586-68047507 (PCIC/CT1906060).

8. Compliance with the Essential Health and Safety Requirements has been assured by compliance with :
- p/EN 60079-0 (2007)
- EN 60079-1 (2007)

9. If the sign X is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

10. This EC type examination certificate relates only to the design and construction of this specified equipment or protective system in accordance with Annex II to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

11. The marking of the equipment or protective system shall include the following information as detailed at 15.

12. The marking of the equipment or protective system shall include the following information as detailed at 15.

Le responsable de certification ATEX
Michel EQUI

IEC TYPE EXAMINATION CERTIFICATE

1. Equipment or protective system intended for use in potentially explosive atmospheres (Directive 94/9/EC)

2. EC type examination certificate number LCIE 09 ATEX 3046

3. Equipment or protective system :
Explosion-proof light fittings for fluorescent lamp
Type : BAYS1...

4. Applicant :
Warren Group Co., Ltd
No.555 Baogang Road
Jiading District, Shanghai
201506, P.R. of China

5. Manufacturer :
Warren Group Co., Ltd
No.555 Baogang Road
Jiading District, Shanghai
201506, P.R. of China

6. This equipment or protective system and any acceptable variations thereto are specified in the schedule to this certificate and the documents therein referred to.

7. LCIE, notified body number 0081 in accordance with article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment or protective system has been found to comply with the essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential report N° 74586-68047507 (PCIC/CT1906060).

8. Compliance with the Essential Health and Safety Requirements has been assured by compliance with :
- p/EN 60079-0 (2007)
- EN 60079-1 (2007)

9. If the sign X is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

10. This EC type examination certificate relates only to the design and construction of this specified equipment or protective system in accordance with Annex II to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

11. The marking of the equipment or protective system shall include the following information as detailed at 15.

12. The marking of the equipment or protective system shall include the following information as detailed at 15.

Le responsable de certification ATEX
Michel EQUI

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

Certificate No.: IECEx 016, 17-0004 **Issue No. 0** **Certificate history:** Issue No. 0 (2017-04-05)

Status: Current **Page 1 of 3**

Date of issue: 2017-04-05

Applicant: Calem Group
Via Aquilina,
10-34070 Villaso (GO),
Italy

Equipment: LED Lighting Fixture

Optional accessory:

Type of Protection: Ex db-eb-ep-ib, Ex ib

Marking: Ex db-eb-ep-ib-ib-HQ T8T8 Gb
Ex ib IEC T8T8CT8T8 Gb-IP66

Approved for issue on behalf of the IECEx **A C Smith**
Certification Body:

Position: Technical Operations Director

Signature: (for printed version)

Date: 2017-04-05

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:
Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ebbw Vale, Gwent NP23 5JG
United Kingdom

(BELONGS TO IMPORTED PRODUCTS)

 **INERIS**

2 Appareil ou système de protection destiné à être utilisé en atmosphères explosibles
Equipment and protective systems intended for use in potentially explosive atmospheres

Directive 2014/34/UE
Directive 2014/34/EU

1 **ATTESTATION D'EXAMEN UE DE TYPE**
EU-TYPE EXAMINATION CERTIFICATE

3 Numéro de l'attestation d'examen UE de type / Number of the EU-Type Examination Certificate
INERIS 16ATEX0007X INDEX / ISSUE : 00

4 Appareil ou système de protection / Equipment or protective system:
APPAREILLAGES ET ACCESSOIRES TYPE
RE - RES - REM - REN - LBN - LBN - NP - EM - PLG - ELF - ELN - ELNF
FITTINGS AND ACCESSORIES TYPE
RE - RES - REM - REN - LBN - LBN - NP - EM - PLG - ELF - ELN - ELNF

5 Fabricant / Manufacturer: **FEAM**

6 Adresse / Address: **Via Mario Paganini, 3
I - 20090 Trezzano Sù Naviglio (MI)**

7 Cet appareil ou système de protection et toute autre variante acceptable de celui-ci sont décrits dans l'annexe de la présente attestation et dans les documents descriptifs cités dans cette annexe.
This equipment or protective system and any acceptable variation thereto is specified in the Annex of this certificate and the descriptive documents therein referred to.

8 L'INERIS, organisme notifié et identifié sous le numéro 0280, conformément aux articles 17 et 21 de la directive 2014/34/UE du Parlement européen et du Conseil, datée du 26 février 2014, et accrédité par le COFRAC sous le n° 5-0045 dans le cadre de l'activité de certification de produits et services (portée disponible sur www.cofrac.fr) certifie que cet appareil ou système de protection répond aux Exigences Essentielles de Sécurité et de Santé en ce qui concerne la conception et la construction des appareils et des systèmes de protection destinés à être utilisés en atmosphères explosibles, décrites en annexe II de la Directive.
INERIS, notified body and identified under number 0280, in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, and accredited by COFRAC under number 5-0045 for certification of products and services (scope of accreditation available on the website www.cofrac.fr), certifies that this equipment or protective system fulfils the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
Les procédures de certification sont disponibles sur www.ineris.fr.
The rules of certification are available on INERIS website on: www.ineris.fr.
Les examens et les essais sont consignés dans le rapport.
The examination and the tests are recorded in the report.
N° 029953.

Page 1 / 5

KEMA 

1) **EC-TYPE EXAMINATION CERTIFICATE**

2) Components intended for use in potentially explosive atmospheres - Directive 94/EC

3) EC-Type Examination Certificate Number: **KEMA 91ATEX3257 U**

4) Components: **Enclosures Type E.IB**

5) Manufacturer: **CO.SIME S.R.L.**

6) Address: **Via Asiago, 51, 20126 Milan, Italy**

7) These components and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/EC of 23 March 1994, certifies that these components have been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. 2015042.

9) Compliance with the Essential Health and Safety Requirements has been assessed by compliance with:
EN 50014 : 1997 EN 50018 : 2000 EN 50281-1-1 : 1998

10) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.

11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified components according to the Directive 94/EC. Further requirements of the directive apply to the manufacturing process and supply of these components. These are not covered by this certificate.

12) The marking of the components shall include the following:
 **II 2 GD EEx d IB**

Amhem, 11 March 2015
KEMA Quality B.V.

T. Fijster
Certification Manager

* This Certificate may only be reproduced in its entirety and without any change

KEMA Quality B.V.
Liesbosweg 215, 6522 AH Nijmegen, The Netherlands
P.O. Box 4444, 6500 CD Arnhem, The Netherlands
Telephone +31 (0) 251 53 03 00, Telefax +31 (0) 251 53 03 01

ACCREDITED BY THE
DUTCH COUNCIL FOR
ACCREDITATION

Page 1/2

Translation

1 **EU-Type Examination Certificate**
Supplement 13

2 Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

3 EU-Type Examination Certificate Number: **BVS 09 ATEX E 034**

4 Product: **Fluorescent lighting fixture type eLL***

5 Manufacturer: **Cooper Crouse-Hinds GmbH**

6 Address: **Neuer Weg Nord 49, 68412 Eberbach, Germany**

7 This supplementary certificate extends EU-Type Examination Certificate No. BVS 09 ATEX E 034 to apply to products designed and constructed in accordance with the specifications set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA EXAM GmbH, Notified Body number 0166, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential Report No. BVS PP 06.2044 EU.

9 The Essential Health and Safety Requirements are assessed in consideration of:
EN 60079-0:2012 + A1:2013 General requirements
EN 60079-1:2014 Flameproof enclosure "d"
EN 60079-7:2015 Increased Safety "e"
EN 60079-11:2012 Intrinsic Safety "i"
EN 60079-18:2014 Encapsulation "m"
EN 60079-28:2015 Optical radiation "op ls"
EN 60079-31:2014 Protection by Enclosures "p"

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:
II 2D Ex db eb IIC T4 Gb
II 2D Ex db eb mb IIC T4 Gb
II 2D Ex db eb mb op ls IIC T4 Gb
II 2D Ex db eb mb op ls IIC T4 Gb
II 2D Ex db IIC T80°C Db

DEKRA EXAM GmbH
Bochum, 2018-08-03

Signed: Dr Franz Eickhoff
Certifier

Signed: Dr Michael Witter
Approver

Page 1 of 1 of BVS 09 ATEX E 034 / 1/1
This certificate may only be reproduced in its entirety and without any change.
DEKRA EXAM GmbH, Dr Franz Eickhoff & Dr Michael Witter, Germany
Headline: +49 (0) 234 944-1111, Fax: +49 (0) 234 944-1112, Email: exam@dekra.com

IEC  **IECEx Certificate of Conformity**

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CMEX 17.0001X** Page 1 of 4 Certificate Ref: **17.0001X**

Status: **Current** Issue No: **0**

Date of Issue: **2017-05-22**

Applicant: **CZ Explosion-proof Electric Appliances Co., Ltd**
No. 1 Qing Rd, Qing Town, Nantao District, Jiang, Zhejiang, China

Equipment: **LED explosion-proof light fittings model CZ0804**

Optional accessory:

Type of Protection: **Ex db, eb, op ls, ib**

Marking: **Ex db eb op ls IIC T5/T4 Gb**
Ex ib IIC T80°C T330°C Db

Approved for issue on behalf of the IECEx Certification Body: **Wu Jianguo**

Position: **Certification Officer**

Signature: 
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:
CMEX-Global B.V.
Utrechtseweg 320
6822AR, Arnhem
Netherlands



QA-AC-4414/20

QA TECHNIC – UYGUNLUK ONAYI
QA TECHNIC – ATTESTATION OF CONFORMITY

MSM MÜHENDİSLİK ELEKTROMEKANİK SAN. VE TİC. LTD. ŞTİ.
BARBAROS MAH. MİLLET CAD. NO:38/A YENİSAHRA ATAŞEHİRİ
İSTANBUL/TÜRKİYE

Ürünün Tanımı

Description of the Product/Product Part

Markası

Product Commercial Brand

Ürün Tipi

Product Type

M-BHF, M-BFF, M-BMH TİP EX / END. GALVANİZLİ BORU RAKOR SERİSİ, M-SBR TİP EX / END. SİRALI BORU RAKOR SERİSİ, M-DRR TİP EX / END. DÜZ BORU RAKOR SERİSİ, M-PLG TİP EX / END. KÖR TAPA SERİSİ, M-HEB TİP EX / END. REDÜKSİYON SERİSİ, M-RE TİP EX / END. ADAPTOR SERİSİ, M-EN TİP EX / END. HANGON SERİSİ, M-NP TİP EX / END. NİPEL SERİSİ, M-EYS TİP EX / END. DÜŞÜYÜ DÜŞÜRÜCÜ SERİSİ, M-SX, M-ST, M-SL, M-SG, M-S TİP EX / END. İKTİBAT KUTUSU SERİSİ

M-VEIN TYPE EXPROOF / INDUSTRIAL UNARMOURD CABLE GLAND SERIES, M-HEB TYPE EXPROOF / INDUSTRIAL ARMOURD CABLE GLAND SERIES, M-BHF, M-BFF, M-BMH TYPE EXPROOF / INDUSTRIAL CONDUIT UNION SERIES, M-SBR TYPE EXPROOF / INDUSTRIAL FLEXIBLE CONDUIT CONNECTOR SERIES, M-DRR TYPE EXPROOF / INDUSTRIAL RIGID CONDUIT CONNECTOR SERIES, M-PLG TYPE EXPROOF / INDUSTRIAL BLIND PLUG SERIES, M-HEB TYPE EXPROOF / INDUSTRIAL REDUCER SERIES, M-RE TYPE EXPROOF / INDUSTRIAL ADAPTER SERIES, M-EN TYPE EXPROOF / INDUSTRIAL COUPLING SERIES, M-NP TYPE EXPROOF / INDUSTRIAL NIPPLE SERIES, M-EYS TYPE EXPROOF / INDUSTRIAL VERTICAL SEALING FITTING SERIES, M-SX, M-ST, M-SL, M-SG, M-S TYPE EXPROOF / INDUSTRIAL JUNCTION BOXES SERIES

Rapor No & Rapor Tarihi

Report No & Report Date

: QA-AC-R-4414/20, 08.01.2021

İlgili belge inceleme/isi yapılan ürün tasarımı için geçerlidir. Ürünün değiştirilmesi halinde bu belge geçerliliğini kaybedecektir. Ürünün ilgili direktif / direktiflere uygunluğu ile ilgili nihai sorumluluk üretici firmaya aittir.

The Present certificate is valid just for the analysed product design. The certificate shall lose its validity in case of any changes in the product. Ultimate responsibility related with conformity of product with directive / directives, belongs to manufacturer.

İlgili yönetmelikler ve yasal mevzuat gereği Ürünün Ultimate responsibility regarding the affixing of

certification manufacturer

Sertifika Yayın Tarihi : 12.01.2021

Certificate Issue Date : 12.01.2022

Geçerlilik Tarihi

Validity Date

ilgili lisans/isi ile ilgili nihai sorumluluk üreticiye aittir, markı according to relevant regulations and legal legislations.

ALBİRK QA ULUSLARARASI TEKNİK
KONTROL VE BELGELENDİRME A.Ş.
BARBAROS MAH. AK FARKAN KÖR.
A BLOK KAT:19 No:3 ATAŞEHİR
İSTANBUL, TÜRKİYE
Tic. Sic. No: 272 484 10-11-12
Fax : 0216 822 4414
www.qatechnic.com

L. Murat YILMAZ
Yönetim Kurulu Başkanı
Chairman of Executive Board

ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ЕАЭС RU C-TRAD07. В.02902/20

Серия RU № 0224860

ОРГАН ПО СЕРТИФИКАЦИИ Орган по сертификации Общество с ограниченной ответственностью «Национальный институт сертификации» (НИИС). Место нахождения (юридический адрес): 190008, РОССИЯ, город Санкт-Петербург, район Адмиралтейский, Зубовский дом 12, корпус 2, литера А, пом. 2, комнаты 26. Адрес места осуществления деятельности: 190008, РОССИЯ, город Санкт-Петербург, район Адмиралтейский, дом 4 литер А, комнаты 38. Уполномоченный орган заявил об аккредитации в роде сертификационных лиц № РА.РУ.104/07. Дата решения об аккредитации: 24.01.2016. Телефон: +7(812)311180. Адрес электронной почты: info@nic.ru

ЗАЯВИТЕЛЬ ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ «МТТ ТЕХНОЛОГИ» Место нахождения (юридический адрес): город Москва, Ленинский район, дом 4, этаж 5, комната IV, офис 603. Основной государственный регистрационный номер: 107770445006. Телефон: 79034015203. Адрес электронной почты: MttTechnology@gmail.com

ИЗГОТОВИТЕЛЬ ЧММ МЕНЕДЖЕРС ЕЛЕКТРОМЕКАНИК SANAT YU TICARAT LTD. STI Место изготовления (юридический адрес): город Москва, Ленинский район, дом 4, этаж 5, комната IV, офис 603. Основной государственный регистрационный номер: 107770445006. Телефон: 79034015203. Адрес электронной почты: MttTechnology@gmail.com

ПРОДУКЦИЯ Батарейки щелочные, литиевые, цилиндрические, плоские, герметичные, перезарядные, неперезарядные, М-6000, М-10000, М-15000, М-20000, М-25000, М-30000, М-35000, М-40000, М-45000, М-50000, М-55000, М-60000, М-65000, М-70000, М-75000, М-80000, М-85000, М-90000, М-95000, М-100000, М-105000, М-110000, М-115000, М-120000, М-125000, М-130000, М-135000, М-140000, М-145000, М-150000, М-155000, М-160000, М-165000, М-170000, М-175000, М-180000, М-185000, М-190000, М-195000, М-200000, М-205000, М-210000, М-215000, М-220000, М-225000, М-230000, М-235000, М-240000, М-245000, М-250000, М-255000, М-260000, М-265000, М-270000, М-275000, М-280000, М-285000, М-290000, М-295000, М-300000, М-305000, М-310000, М-315000, М-320000, М-325000, М-330000, М-335000, М-340000, М-345000, М-350000, М-355000, М-360000, М-365000, М-370000, М-375000, М-380000, М-385000, М-390000, М-395000, М-400000, М-405000, М-410000, М-415000, М-420000, М-425000, М-430000, М-435000, М-440000, М-445000, М-450000, М-455000, М-460000, М-465000, М-470000, М-475000, М-480000, М-485000, М-490000, М-495000, М-500000, М-505000, М-510000, М-515000, М-520000, М-525000, М-530000, М-535000, М-540000, М-545000, М-550000, М-555000, М-560000, М-565000, М-570000, М-575000, М-580000, М-585000, М-590000, М-595000, М-600000, М-605000, М-610000, М-615000, М-620000, М-625000, М-630000, М-635000, М-640000, М-645000, М-650000, М-655000, М-660000, М-665000, М-670000, М-675000, М-680000, М-685000, М-690000, М-695000, М-700000, М-705000, М-710000, М-715000, М-720000, М-725000, М-730000, М-735000, М-740000, М-745000, М-750000, М-755000, М-760000, М-765000, М-770000, М-775000, М-780000, М-785000, М-790000, М-795000, М-800000, М-805000, М-810000, М-815000, М-820000, М-825000, М-830000, М-835000, М-840000, М-845000, М-850000, М-855000, М-860000, М-865000, М-870000, М-875000, М-880000, М-885000, М-890000, М-895000, М-900000, М-905000, М-910000, М-915000, М-920000, М-925000, М-930000, М-935000, М-940000, М-945000, М-950000, М-955000, М-960000, М-965000, М-970000, М-975000, М-980000, М-985000, М-990000, М-995000, М-1000000, М-1005000, М-1010000, М-1015000, М-1020000, М-1025000, М-1030000, М-1035000, М-1040000, М-1045000, М-1050000, М-1055000, М-1060000, М-1065000, М-1070000, М-1075000, М-1080000, М-1085000, М-1090000, М-1095000, М-1100000, М-1105000, М-1110000, М-1115000, М-1120000, М-1125000, М-1130000, М-1135000, М-1140000, М-1145000, М-1150000, М-1155000, М-1160000, М-1165000, М-1170000, М-1175000, М-1180000, М-1185000, М-1190000, М-1195000, М-1200000, М-1205000, М-1210000, М-1215000, М-1220000, М-1225000, М-1230000, М-1235000, М-1240000, М-1245000, М-1250000, М-1255000, М-1260000, М-1265000, М-1270000, М-1275000, М-1280000, М-1285000, М-1290000, М-1295000, М-1300000, М-1305000, М-1310000, М-1315000, М-1320000, М-1325000, М-1330000, М-1335000, М-1340000, М-1345000, М-1350000, М-1355000, М-1360000, М-1365000, М-1370000, М-1375000, М-1380000, М-1385000, М-1390000, М-1395000, М-1400000, М-1405000, М-1410000, М-1415000, М-1420000, М-1425000, М-1430000, М-1435000, М-1440000, М-1445000, М-1450000, М-1455000, М-1460000, М-1465000, М-1470000, М-1475000, М-1480000, М-1485000, М-1490000, М-1495000, М-1500000, М-1505000, М-1510000, М-1515000, М-1520000, М-1525000, М-1530000, М-1535000, М-1540000, М-1545000, М-1550000, М-1555000, М-1560000, М-1565000, М-1570000, М-1575000, М-1580000, М-1585000, М-1590000, М-1595000, М-1600000, М-1605000, М-1610000, М-1615000, М-1620000, М-1625000, М-1630000, М-1635000, М-1640000, М-1645000, М-1650000, М-1655000, М-1660000, М-1665000, М-1670000, М-1675000, М-1680000, М-1685000, М-1690000, М-1695000, М-1700000, М-1705000, М-1710000, М-1715000, М-1720000, М-1725000, М-1



TCS

CERTIFICATE




MSM MÜHENDİSLİK ELEKTROMEKANİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ

Merkez: Barbaros Mah. Evren Cad. No:38 Ataşehir, İstanbul, TÜRKİYE
Depo: Barbaros Mah. Evren Cad. No:12-A Ataşehir, İstanbul, TÜRKİYE

Kablo Teyiş, Kuruma ve Gortlandırma Sistemleri İmalatı, Pazarlaması ve Satışı
 Production, Marketing and Sale of Cable Transport, Protection and Termination Systems

TCS Belgelendirmesi tarafından değerlendirilmiştir ve uygulananlık olduğu Kalite Yönetim Sistemini
 is certified by TCS Certification and applied Quality Management System meet the requirements of

ISO 9001:2015

standardına aşağıdaki kapsamda uygunluk olduğu ghemlenmiştir.
 standard for the following activities:

Sertifika No / Certificate No: QM-00 90

180482-1R

Sertifika İlk Yayımlı Tarihi /
Certificate Issue Date: 30.07.2018

Sertifika Son Başım Tarihi /
Certificate Valid Until Date: 30.06.2020

Merkez Belgelendirmenin Geçerlilik Periyodu /
Center Date of Current Certification Period: 30.07.2018 - 30.07.2021

İLK YAYIMLANIŞ TARİHİ /
First Issue Date: 30.07.2018

Barbaros Mah. Kablo Cad. No:38 Etiler No: 18 Beşiktaş / İstanbul
 T: 0212 472 22 537 - 22 14 571 56 21 - info@tcs.com.tr - www.tcs.com.tr

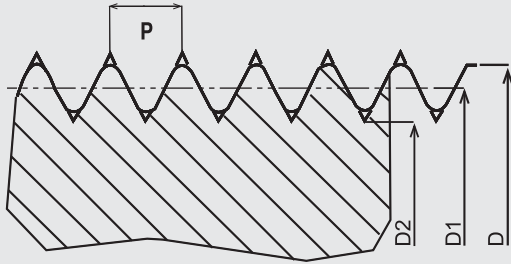
Her Belgelendirme için TCS belgelendirme kuruluşuna başvuru yapılmalıdır.
 The application for certification should be submitted to the certification body.




	TÜRKİYE ODALAR VE BORSALAR BİRLİĞİ	
İSTANBUL TİCARET ODASI	KAPASİTE RAPORU	
İSTANBUL TİCARET ODASI	Geçerlilik Süresi Sonu 20.10.2022	Rapor Tarihi : 19.10.2020 Rapor No : 4343
Firma Ünvanı	MŞM TEKNİK ENDÜSTRİYEL SİSTEMLER İMALAT SANAYİ VE TİCARİET LİMİTED ŞİRKETİ	Sıra/Satır No : 72099
Ticari Sicil Numarası	: Köybaşı V.D. / 621611234	Oda Sicil No : 7131238
Vergi Dairesi/No	: 2790079712658250441-80	Ticaret Sicil No : 713123
İşletim SICR No	No: 031.0312-7148-0019	Pasifite Kodu : 25.62.02 (NACE)
Ölçümün Yapıldığı Yıl	Adres : BARBAROS MAH. EVREN CAD.NO:25A ATAŞEHİR / İSTANBUL	
	İşletim Tel (Kodlu) : 2164720800 Faks : 2164720888	
	e-posta : msc@mmmk.com Web :	
Merkaz	Adres : BARBAROS MAH. EVREN CAD.NO:25A ATAŞEHİR / İSTANBUL	
	Bilanço Tel (Kodlu) : 2164720800 Faks : 2164720888	
Ölçümün Konusu	ELEKTROMEKANİK SONLANDIRMA SİSTEMLERİ	
Ölçüm Tanıtım Durumu	Sonuçtan Kontrolü Durumu (TL)	Personel Durumu
Kontrol : Makine ve Teçhizat Değeri : 134.350		Mühürleme : -
Araçlar : - Teçhizat : 130.000		Teknikler : -
Teslimat Kapasitesi : 100		Uzun : -
Sistem İşletim Yılı : 2020		İşçi : 6
		İdari Pers. : -
		Toplam : 6
Görüşme Faaliyetleri Başlangıç Tarihi : 30.03.2010		
Yabancı Sermaye		Gayri Mülki Hak
Dileti	Oran (%)	Patent Know How Lisans Dileti
Notlar:		
Yükseklik ölçümü yapılmamıştır. Ölçümün mevcut makine ve teçhizatın yeterliliğiyle ölçümü ve ölçümüne göre teknik olarak hesaplanan arazi genişliği kapasitesi ile ölçülen kapasitenin karşılaştırılması için raporun 14.10.2020 günü tarafsız bir şekilde değerlendirilmiştir.		
RAPORTÖR	İLKESPER	2.EKSPER
YUSUF SANCAR Kapasite Servisi Raporörü	Mehmet KIRAK Makina Mühendisi	-
		
		
19.10.2020	19.10.2020	

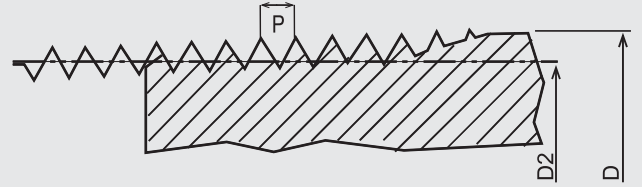
THREAD TYPE FEATURES

GAS THREAD
(UNI ISO 228)



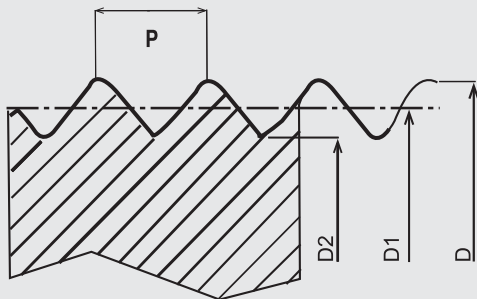
Thread Type	Thread Diameter D	Size D1	Size D2	Size P	Thread Piece Z
G 1/4"	13,157	12,301	11,445	1,337	19
G 3/8"	16,662	15,806	14,950	1,337	19
G 1/2"	20,955	19,793	18,631	1,814	14
G 3/4"	26,441	25,279	24,117	1,814	14
G 1"	33,249	31,770	30,291	2,309	11
G 1 1/4"	41,910	40,431	38,952	2,309	11
G 1 1/2"	47,803	46,324	44,845	2,309	11
G 2"	59,614	58,135	56,656	2,309	11
G 2 1/2"	75,184	73,705	72,226	2,309	11
G 3"	87,884	86,405	84,926	2,309	11
G 4"	113,030	111,551	110,072	2,309	11

NPT THREAD
(ANSI B1.20.1)



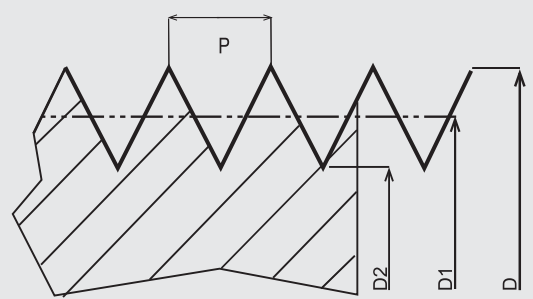
Thread Type	Thread Diameter D	Size D2	Size P	Thread Piece Z
NPT 1/4"	13,716	12,7635	1,411	18
NPT 3/8"	17,145	16,1925	1,411	18
NPT 1/2"	21,336	20,1115	1,814	14
NPT 3/4"	26,670	25,4455	1,814	14
NPT 1"	33,401	31,9100	2,208	11,5
NPT 1 1/4"	42,164	40,6730	2,208	11,5
NPT 1 1/2"	47,800	---	2,208	11,5
NPT 2"	60,325	58,8340	2,208	11,5
NPT 2 1/2"	73,025	70,8817	3,175	8
NPT 3"	88,900	86,7567	3,175	8
NPT 4"	114,300	112,1567	3,175	8

PG THREAD
(DIN 40430)



Thread Type	Thread Diameter D	Size D1	Size D2	Size P	Thread Piece Z
Pg 7	12,50	11,89	11,28	1,27	20
Pg 9	15,20	14,53	13,36	1,41	18
Pg 11	18,60	17,93	17,26	1,41	18
Pg 13,5	20,40	19,73	19,06	1,41	18
Pg 16	22,50	21,83	21,16	1,41	18
Pg 21	28,30	27,54	26,78	1,588	16
Pg 29	37,00	36,24	35,48	1,588	16
Pg 36	47,00	46,24	45,48	1,588	16
Pg 42	54,00	53,24	52,48	1,588	16
Pg 48	59,30	58,54	57,78	1,588	16

METRIC THREAD
(EN 60423)



Thread Type	Thread Diameter D	Size D1	Size D2	Size P
M12	12	11,026	10,376	1,5
M16	16	15,026	14,376	1,5
M20	20	19,026	18,376	1,5
M25	25	24,026	23,376	1,5
M32	32	31,026	30,376	1,5
M40	40	39,026	38,376	1,5
M50	50	49,026	48,376	1,5
M63	63	62,026	61,376	1,5

Note: Dimensions are given in "mm". Technical pictures are scale-free.
The specified dimensions cover the teeth of the panel (male) type.

CYCLE TABLES

WEIGHT

1 ons (oz)	= 437,5 grains	= 28,350 g
1 pound (lb)	= 16 oz	= 0,4536 kg
1 stone	= 14 lb	= 6,35 kg
1 ton	= 2.240 lb	= 0,0161 t
1 gram (g)	= 1,000 mg	= 0,0353 oz
1 kilogram (kg)	= 1.000 g	= 2,2046 lb
1 ton	= 1.000 kg	= 0,9842 ton

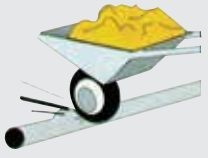
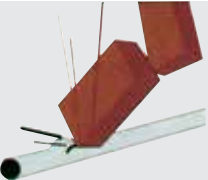
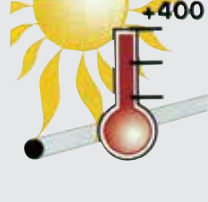
VOLUME

1 cubic yard	= 27 cu ft	= 0,77 m3
1 pint (pt)	= 4 gills	= 0,57 L
1 gallon (gal)	= 8 pt	= 4,55 L
1 cubic decimeter (dm3)	= 1,000 cm3	= 0,04 cu ft
1 cubic meter (m3)	= 1,000 dm3	= 1,31 cu yd
1 liter (L)	= 1 dm3	= 0,22 gal

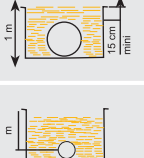
LENGHT

1 inch	= 0,027 yard	= 2.54 cm
1 ft	= 12 inch	= 0.31 m
1 yard	= 3 ft	= 0.91 m
1 mil	= 5.280 ft	= 1.60 km
1 cm	= 0,032 ft	= 0.39 inch
1 m	= 36 inch	= 1.09 yard
1 km	= 1.760 yard	= 0.62 mil

MECHANICAL AND THERMIC CLASSIFICATION

EN 61386 CLASSIFICATION			
1	2	3	4
1st figure resistance to compression		3rd figure upper temperature range	
	1	very light	125 N
	2	light	320 N
	3	medium	750 N
	4	heavy	1250 N
	5	very heavy	4000 N
2nd figure resistance to compression		4th figure lower temperature range	
	1	very light	0,5 J
	2	light	1 J
	3	medium	2 J
	4	heavy	6 J
	5	very heavy	20 J
			
		1	+60 °C
		2	+90 °C
		3	+105 °C
		4	+120 °C
		5	+150 °C
		6	+250 °C
		7	+400 °C
		1	+5 °C
		2	-5 °C
		3	-15 °C
		4	-25 °C
		5	-45 °C

IP Ratings (Ingress Protection)

First Digit Protection Against Solids			Second Digit Protection Against Fluids		
	0	No protection		0	No protection
	1	Protected against solid objects over 50mm e.g. hands, large tools.		1	Protected against vertically falling drops of water or condensation.
	2	Protected against solid objects over 12.5mm e.g. hands, large tools.		2	Protected against falling drops of water, if the case is disposed up to 15° from vertical.
	3	Protected against solid objects over 2.5mm e.g. wire, small tools.		3	Protected against sprays of water from any direction, even if the case is disposed up to 60° from vertical.
	4	Protected against solid objects over 1.0mm e.g. wires.		4	Protected against splash water from any direction.
	5	Limited protection against dust ingress. (no harmful deposit)		5	Protected against low pressure water jets from any direction. Limited ingress permitted.
	6	Totally protected against dust ingress.		6	Protected against high pressure water jets from any direction. Limited ingress permitted.
CONSERVATION CONCEPTS OIL-TIGHT DUST-TIGHT WATER-TIGHT DRIP-TIGHT RAIN-TIGHT				7	Protected against short periods of immersion in water.
				8	Protected against long, durable periods of immersion in water.
			ICE RESISTANT SLEET RESISTANT RAIN-PROOF WEATHER-PROOF CORROSION RESISTANT		

www.msmmuhendislik.com
msm@msmmuhendislik.com

HEAD OFFICE - WAREHOUSE 1:
Barbaros Mah. Millet Cad. No:38
Ataşehir-İSTANBUL
Tel: (0216) 472 87 55 (3 Hat) Faks: (0216) 315 35 85

MANUFACTURE - WAREHOUSE 2:
Barbaros Mah. Millet Cad. No:25/A
Ataşehir-İSTANBUL

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