Stainless steel flexible conduit for explosion proof electrical plant

Execution:
Ex d IIC Gb
Ex tb IIIC Db IP66/67

Protection degree:
IP66
IP67

Atex applicable standards:
EN 60079-0, EN 60079-1, EN 60079-31

IECEx applicable standards:
IEC 60070-0, IEC 60079-1, IEC 60079-31

Ambient temperature:
-50°C / +80°C

Installation area: zone 1 – 2 (Gas)
zone 21 – 22 (Dust)

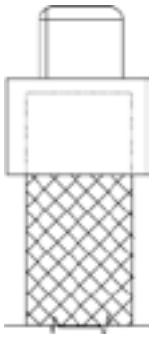
Material:
Inner pipe and external braid - Stainless steel
Threaded terminals - Galvanized steel
Stainless steel AISI 304 or 316 is available on request

Description: Flexible conduits are installed where connection must be made to equipment subjects to vibration: motors, pumps, etc. they are also favoured for connection to pendant lighting fitting and at bends where rigid conduit is difficult to handle.

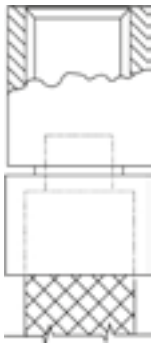
NOMINAL Ø	INTERNAL Ø (mm)	EXTERNAL Ø (mm)	MINIMUM BEND RADIUS
½"	12	21,5	75
¾"	19	29	90
1"	25	37,5	105
1¼"	32	46,3	135
1½"	38	53	170
2"	50	68	190
2½"(*)	63	85	230
3"	75	99	260

The following types of fittings are available

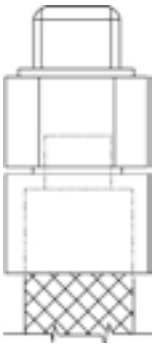
Fixed Male



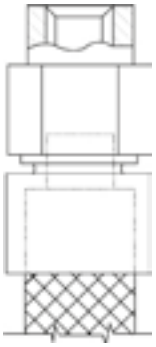
Fixed Female



Swivelling Male



Swivelling Female



Applicable standards:
UNI 7683

Material: Steel Fe360

Protective coating: hot dip galvanizing in compliance with EN 10240

Description: Rigid conduits are installed where connection must be made to equipment subjects to vibration: motors, pumps, etc. they are also favoured for connection to pendant lighting fitting and at bends where rigid conduit is difficult to handle.

CODE	THREAD TYPE	NOMINAL Ø	EXTERNAL Ø (mm)	WALL THICKNESS (mm)	LENGHT (m)	WEIGHT (Kg/m)
16.01.02.09.07.00000	NPT	1/2"	21,3	2,3	6,0	1,17
16.01.02.09.07.00001	NPT	3/4"	26,9	2,3	6,0	1,46
16.01.02.09.07.00002	NPT	1"	33,7	2,9	6,0	2,30
16.01.02.09.07.00003	NPT	1 ¼"	42,4	2,9	6,0	2,96
16.01.02.09.07.00004	NPT	1 ½"	48,3	2,9	6,0	3,39
16.01.02.09.07.00005	NPT	2"	60,3	3,2	6,0	4,70
16.01.02.09.07.00006	NPT	2 ½"	76,1	3,2	6,0	6,04
16.01.02.09.07.00007	NPT	3"	88,9	3,6	6,0	7,94
16.01.02.09.07.00008	NPT	4"	114,3	4,0	6,0	11,39

Note: Optional lenght 3 m

CODE	THREAD TYPE	NOMINAL Ø	EXTERNAL Ø (mm)	WALL THICKNESS (mm)	LENGHT (m)	WEIGHT (Kg/m)
16.01.01.09.07.00000	UNI 6125	1/2"	21,3	2,3	6,0	1,17
16.01.01.09.07.00001	UNI 6125	3/4"	26,9	2,3	6,0	1,46
16.01.01.09.07.00002	UNI 6125	1"	33,7	2,9	6,0	2,30
16.01.01.09.07.00003	UNI 6125	1 ¼"	42,4	2,9	6,0	2,96
16.01.01.09.07.00004	UNI 6125	1 ½"	48,3	2,9	6,0	3,39
16.01.01.09.07.00005	UNI 6125	2"	60,3	3,2	6,0	4,70
16.01.01.09.07.00006	UNI 6125	2 ½"	76,1	3,2	6,0	6,04
16.01.01.09.07.00007	UNI 6125	3"	88,9	3,6	6,0	7,94
16.01.01.09.07.00008	UNI 6125	4"	114,3	4,0	6,0	11,39

Note: Optional lenght 3 m

CODE	THREAD TYPE	NOMINAL Ø	EXTERNAL Ø (mm)	WALL THICKNESS (mm)	LENGHT (m)	WEIGHT (Kg/m)
	ISO 7/1	1/2"	21,3	2,3	6,0	1,17
	ISO 7/1	3/4"	26,9	2,3	6,0	1,46
	ISO 7/1	1"	33,7	2,9	6,0	2,30
	ISO 7/1	1 ¼"	42,4	2,9	6,0	2,96
	ISO 7/1	1 ½"	48,3	2,9	6,0	3,39
	ISO 7/1	2"	60,3	3,2	6,0	4,70
	ISO 7/1	2 ½"	76,1	3,2	6,0	6,04
	ISO 7/1	3"	88,9	3,6	6,0	7,94
	ISO 7/1	4"	114,3	4,0	6,0	11,39

Note: Optional lenght 3 m

Conduit pipes for electrical plant UL type

Standards of construction:
ANSI C80.1, UL 6

Standards of use:
NEC: Art. 344 Rigid Metal Conduit, Art. 250.118 (2)
NEC: Art. 501.10 (A) (1) and (B) (1)
Class I Div. 1 & 2, Art. 502.10(B) (1)
Class II Div. 2, Art. 503.10 (A) (1) and (B)
Class III Div. 1 & 2

Material: Hot dip galvanized steel
On request aluminium, stainless steel AISI 304 or AISI 316

Description: Threaded electrical conduits designed according to Art. 344 ANSI/NFPA 70 "National Electrical Code" (NEC). These conduits are used for high mechanical protection and routing of conductors and cables. They reduce electromagnetic field exposure, shields against electromagnetic interference.

CODE	THREAD TYPE	SIZE	NOMINAL Ø (mm)	DIMENSIONS		L [ft (m)]	INTERNAL CROSS SECTION (mm²)	WEIGHT (Kg/m)
				Di (mm)	De (mm)			
16.01.02.09.09.00000	NPT	1/2"	15	16,1	21,3	10 (3,05)	204	3,72
16.01.02.09.09.00001	NPT	3/4"	20	21,2	26,7	10 (3,05)	353	4,94
16.01.02.09.09.00002	NPT	1"	25	27	33,4	10 (3,05)	573	7,3
16.01.02.09.09.00003	NPT	1 ¼"	32	35,4	41,2	10 (3,05)	984	9,89
16.01.02.09.09.00004	NPT	1 ½"	40	41,2	48,3	10 (3,05)	1333	11,93
16.01.02.09.09.00005	NPT	2"	50	52,9	60,3	10 (3,05)	2198	15,88
16.01.02.09.09.00006	NPT	2 ½"	65	63,2	73	10 (3,05)	3137	25,36
16.01.02.09.09.00007	NPT	3"	80	78,5	88,9	10 (3,05)	4840	32,98
16.01.02.09.09.00008	NPT	3 ½"	90	90,7	101,6	10 (3,05)	6461	39,92
16.01.02.09.09.00009	NPT	4"	100	102,9	114,3	10 (3,05)	8316	46,72
16.01.02.09.09.00010	NPT	5"	125	128,9	141,3	10 (3,05)	13050	63,5
16.01.02.09.09.00011	NPT	6"	150	154,8	168,3	10 (3,05)	18821	83,46