



MXBJ JUNCTION BOXES

- ▶ II 2 G D Ex e IIC
- ▶ IP66 water- and dust-tight sealing
- ▶ Glass reinforced, graphite-filled polyester resin enclosures



These junction boxes are constructed from reinforced polyester resin with fibreglass and graphite loaded, and are designed for making electrical connections in hazardous areas. They provide increased safety and intrinsic safety, allowing them to be used in zones 1 & 2 (gas), 21 & 22 (dust). This comprehensive range is also ideal for wet environments – such as food and beverage or chemical industries – thanks to their corrosion resistance.

TECHNICAL FEATURES

ELECTRICAL FEATURES	
Maximum voltage*	750 V
Maximum nominal current*	350 A
Flexible or stranded wiring (min - max)*	0,2 - 240 mm ²
* depending on the type of terminal connection	
Cable entries	M12 to M63
THERMAL SPECIFICATION	
Temperature range and ratings	From -55 °C to +60 °C From -55 °C to +40 °C (T ₆ = 85 °C surface temperature) From -55 °C to +55 °C (T ₅ = 100 °C surface temperature) From -55 °C to +60 °C (T ₄ = 135 °C surface temperature)
MECHANICAL FEATURES	
Degree of protection	IP66
Resistance to shocks	IK09 according to IEC and EN 62 262.
Material	Casing made of polyester resin reinforced with fibreglass and graphite loaded Stainless steel screws
ATEX MARKINGS	
ATEX zones	Gas and Dust : zones 1 & 2, 21 & 22
ATEX markings	II 2 G D Ex e II T4 to T6 Ex tD A21 increased safety 2 G D Ex ia IIC T6 tD A21 or II 2 G D Ex ib IIC T6 tD A21 intrinsic safety 2 G D Ex e ia IIC T6 tD A21 or II 2 G D Ex e ib IIC T6 tD A21 increased safety and intrinsic safety
Compliance with Standards	IEC EN 60079-0, 60079-1, 60079-7, 60079-11, 61241-0, 61241-1 et 60079-31
Certificates	Certificates IECEx N° IECEx LCI 11.0026 and ATEX N° LCIE 11 ATEX 3028



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK



CONDUCTORS CROSS-SECTION : NUMBER OF TERMINALS / In MAX (A)

1.5 mm ²		2.5 mm ²		4.5 mm ²		6 mm ²		10 mm ²		16 mm ²	
Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max
MXBJ1	14	13 A	14	15 A	11	18 A	-	-	-	-	-
	10	15 A	7	20 A	5	25 A	-	-	-	-	-
MXBJ2	19	12 A	15	15 A	15	17 A	13	22 A	10	31 A	7
	11	15 A	9	20 A	7	25 A	6	32 A	4	45 A	3
MXBJ3	42	8 A	34	10 A	34	11 A	29	15 A	22	21 A	17
	11	15 A	9	20 A	7	25 A	6	32 A	4	45 A	3
MXBJ4	28	11 A	23	14 A	23	15 A	19	20 A	14	29 A	11
	15	15 A	11	20 A	9	25 A	7	32 A	6	45 A	4
MXBJ5	76	7 A	61	9 A	61	11 A	51	14 A	39	21 A	31
	17	15 A	14	20 A	12	25 A	11	32 A	8	45 A	5
MXBJ6	102	6 A	82	8 A	82	9 A	70	12 A	52	17 A	42
	16	15 A	13	20 A	12	25 A	12	32 A	8	45 A	5
MXBJ7	170	5 A	138	7 A	138	8 A	116	11 A	86	16 A	35
	20	15 A	17	20 A	15	25 A	13	32 A	11	45 A	7
MXBJ8	264	4 A	214	5 A	214	6 A	180	8 A	136	12 A	54
	17	15 A	15	20 A	14	25 A	12	32 A	10	45 A	7
MXBJ9	255	5 A	207	6 A	207	8 A	174	10 A	129	15 A	70
	27	15 A	24	20 A	11	25 A	19	32 A	15	45 A	10
MXBJ10	402	4 A	324	6 A	324	7 A	273	9 A	136	17 A	110
	35	15 A	30	20 A	28	25 A	25	32 A	20	45 A	14

25 mm ²		35 mm ²		50 mm ²		70 mm ²		95 mm ²		120 mm ²	
Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max	Nr	In Max
MXBJ4	7	62 A	7	71 A	-	-	-	-	-	-	-
	3	85 A	2	105 A	-	-	-	-	-	-	-
MXBJ5	21	43 A	21	47 A	6	105 A	5	123 A	-	-	-
	5	85 A	2	105 A	3	130 A	2	170 A	-	-	-
MXBJ6	14	51 A	12	60 A	10	89 A	-	-	-	-	-
	5	85 A	3	105 A	4	130 A	-	-	-	-	-
MXBJ7	23	46 A	23	50 A	18	80 A	9	105 A	-	-	-
	7	85 A	5	105 A	6	130 A	3	170 A	-	-	-
MXBJ8	36	36 A	36	39 A	28	58 A	9	102 A	6	140 A	-
	6	85 A	5	105 A	5	130 A	3	170 A	2	205 A	-
MXBJ9	23	55 A	22	61 A	18	93 A	16	93 A	-	-	-
	9	85 A	7	105 A	9	130 A	4	170 A	-	-	-
MXBJ10	27	59 A	35	57 A	28	80 A	25	88 A	22	105 A	18
	13	85 A	10	105 A	9	130 A	6	170 A	5	205 A	5

150 mm ²		185 mm ²		240 mm ²	
Nr	In Max	Nr	In Max	Nr	In Max
MXBJ10	18	150 A	15	197 A	10
	4	265 A	4	305 A	5

ACCESSORIES ON REQUEST

- Earth stud
- Earth bar
- Shield bar
- Junction bar
- Hinges
- Mounting brackets

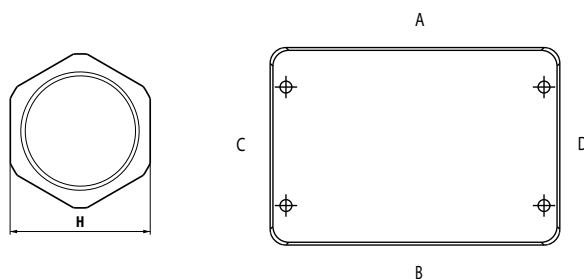


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MAXIMUM NUMBER OF POLY CABLE GLANDS PER SIDE (For metal cable gland for armoured cable contact us)

		M12	M16	M20	M25	M32	M40	M50	M63
	Side	(H = 15 mm)	(H = 22 mm)	(H = 24 mm)	(H = 33 mm)	(H = 42 mm)	(H = 53 mm)	(H = 60 mm)	(H = 70 mm)
MXBS1	A/B	15	6	6	2	2	-	-	-
	C/D	5	2	1	1	1	-	-	-
MXBS2	A/B	12	5	4	2	1	1	-	-
	C/D	12	5	4	2	1	1	-	-
MXBS3	A/B	32	14	12	6	3	2	-	-
	C/D	12	5	4	2	1	1	-	-
MXBS4	A/B	26	14	9	6	3	2	2	-
	C/D	18	8	6	3	2	1	1	-
MXBS5	A/B	72	38	26	16	7	5	4	-
	C/D	18	8	6	3	2	1	1	-
MXBS6	A/B	69	32	24	12	8	4	3	3
	C/D	51	24	18	10	7	3	3	2
MXBS7	A/B	117	56	42	21	14	7	5	5
	C/D	50	22	18	10	6	3	2	2
MXBS8	A/B	108	52	36	18	12	6	4	4
	C/D	50	24	18	10	7	3	3	2
MXBS9	A/B	117	56	42	21	14	7	5	5
	C/D	95	46	36	18	13	6	5	4
MXBS10	A/B	215	102	81	43	26	18	11	10
	C/D	256	158	123	65	40	27	18	14



DIMENSIONS AND FIXING

	A x B x C (en mm)	E1 x E2 x Ød
MXBJ1	75 x 110 x 75	45 x 98 x 4,5
MXBJ2	120 x 122 x 91	82 x 106 x 6,5
MXBJ3	120 x 220 x 91	82 x 204 x 6,3
MXBJ4	160 x 160 x 91	110 x 140 x 6,5
MXBJ5	160 x 360 x 91	110 x 340 x 6,5
MXBJ6	250 x 255 x 121	200 x 235 x 6,5
MXBJ7	250 x 400 x 121	200 x 380 x 6,5
MXBJ8	250 x 600 x 121	200 x 580 x 6,5
MXBJ9	405 x 400 x 121	355 x 380 x 6,5
MXBJ10	405 x 605 x 257	320 x 500 (to drill)

