

MXC 1000HF 0,6/1kV

MXC 1000HF

Power and signalling cable used in railway rolling stock with a specific resistance to fire.

Application

Single-conductor cable designed for rated voltage of 0,6/1kV to be laid in covered installations inside and outside rail vehicles to connect fixed and mobile parts.

Technical data

Conductor: Cu-ETP1 (acc. to EN 13602), multi wire, flexible, class 5 (acc. to EN 60228)
Insulation: Halogen-free flame-retardant polyolefin compound (HFFR)
Sheath: Not applicable
Nominal voltage: AC: U0/U 600/1000V
 DC: U0/U 900/1500V

Bending radius of cable [mm]:

- fixed-mounted: $D \leq 10\text{mm}$ $3 \times D$; $D > 4 \times D$
 - with sporadic movements: $D \leq 10\text{mm}$ $5 \times D$; $D > 6 \times D$
 - with frequent movements: $10 \times D$
- [D – cable diameter]

Temperature range: Maximum continuous operating temperature: +100°C

Standards: PN-K 02511:2000; EN455454
 Cables conform to the requirements of REACH Regulation and RoHS Directive.

Technical characteristics

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Number of conductors x Nominal Cross-section mm ²	Conductor structure		Resistance at 20°C mΩ/m	Insulation thickness mm	Sheath thickness mm	Outer diameter of cable		Approximate weight of cable kg/km
	Number of wires	Single wire diameter				(min.)	(max.)	
		(max.) mm				mm	mm	
1 x 1,00		0,21	19,5	0,6	--	2,35	2,55	14,30
1 x 1,50		0,26	13,3	0,6	--	2,6	2,8	18,90
1 x 2,50		0,26	7,98	0,6	--	3,2	3,4	29,80
1 x 4,00		0,31	4,95	0,6	--	3,85	4,05	46,20

1 x 6,00		0,31	3,30	0,8	--	4,55	4,85	68,30
1 x 10,00		0,41	1,91	1,0	--	5,7	6,0	114,00
1 x 16,00		0,41	1,21	1,25	--	7,15	7,45	176,70
1 x 25,00		0,41	0,780	1,25	--	8,7	9,1	262,80
1 x 35,00		0,41	0,554	1,25	--	10,0	10,4	355,80
1 x 50,00		0,41	0,386	1,45	--	11,7	12,1	523,00
1 x 70,00		0,51	0,272	1,9	--	14,05	14,55	748,70
1 x 95,00		0,51	0,206	1,5	--	15,65	16,15	943,00
1 x 120,00		0,51	0,161	1,5	--	17,6	18,2	1186,10

Contact

Tel: +48 12 631 10 70

E-mail: biuro@manex.com.pl