



3GKW-MW EMC 0.6/1KV Medium Wall Screened Single Core

Applications

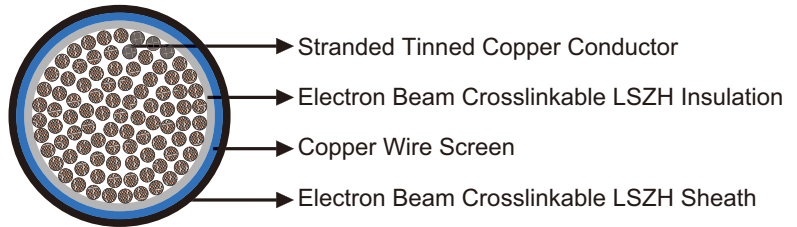
Single core power and control cable designed for protected, fixed installation inside and outside railway vehicles for connecting fixed and moving parts in direct current and alternating voltage technology, especially converter technology.



Standard

- BS 6853 -1a
- DIN 5510-2 1-4
- NFF 16-101 F0

Construction



- Conductors: Circular Class 5

stranded tinned copper to IEC60228/VDE 0295.

- Insulation: Electron beam crosslinkable LSZH compound.
- Screen: Copper wire screen.
- Sheath: Electron beam crosslinkable LSZH compound.

Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	0.5	0.75	1	1.5	2.5	4.0	6.0	10	16
Maximum Conductor Resistance	Ω/km	40.1	26.7	20.0	13.7	8.21	5.09	3.39	1.95	1.24
Voltage Rating	KV	0.6/1								

Nominal Conductor Cross Section	mm ²	25	35	50	70	95	120	150	185
Maximum Conductor Resistance	Ω/km	0.795	0.565	0.393	0.277	0.21	0.164	0.132	0.108
Voltage Rating	KV	0.6/1							

Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 8xOD (Flexing)

Temperature Range: -40°C ~+120°C (Static); -35°C ~+90°C (Flexing)

Short Circuit Temperature: +280°C





Dimensions and Weight

No. of cores & Nominal Conductor Cross Sectional Area No. × mm ²	Number and Nominal Diameter of Strands No./mm		Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×0.5	19/0.18	16/0.20	0.5	4.0	26
1×0.75		24/0.20	0.5	4.2	30
1×1.0		32/0.20	0.55	4.5	34
1×1.5		30/0.25	0.55	4.8	43
1×2.5		50/0.25	0.6	5.5	61
1×4		56/0.30	0.65	6.15	84
1×6		84/0.30	0.7	7.0	112
1×10		80/0.40	0.8	8.4	170
1×16	119/0.41	126/0.40	0.9	10.2	250
1×25	182/0.41	196/0.40	1.0	12.2	360
1×35	266/0.41	276/0.40	1.1	13.7	490
1×50	378/0.41	396/0.40	1.2	15.7	690
1×70	348/0.51	360/0.50	1.3	18.7	920
1×95	444/0.51	475/0.50	1.4	20.5	1170
1×120	551/0.51	608/0.50	1.5	22.7	1430
1×150	722/0.51	756/0.50	1.6	25.5	1830
1×185	874/0.51	925/0.50	1.7	27.6	2190

 耐冲击	 高柔软	 耐冷	 耐焊接热	 IRM 902 防矿物油	 抗紫外线	 耐臭氧
 耐酸碱腐蚀	 阻燃 (成束) NF C32-070-2.2(C1) IEC 60332-3/EN50266	 阻燃 (单根) NF C32-070-2.1(C2) IEC 60332-1/EN 50265-2-1	 低腐蚀性 EN 50267-2-2/NF C32-074 IEC 60754-2/NF C20-453	 低毒	 低烟 IEC 61034/NFC20-902 EN 50268/NF C32-073	 无卤 IEC 60754-1/NF C20-454 EN 50267-2-1