

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

Applications

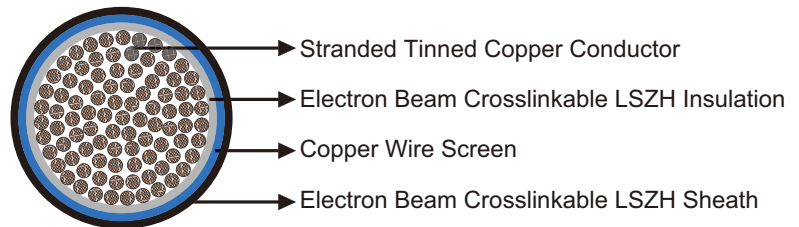
Single core power and control cable designed for protected, fixed installation inside and outside railway vehicles for connecting fixed and moving parts in direct current and alternating voltage technology, especially converter technology.



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

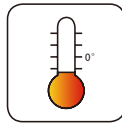
No. of cores & Nominal Conductor Cross Sectional Area No. × mm ²	Number and Nominal Diameter of Strands No./mm		Nominal Insulation Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
1×0.5	19/0.18	16/0.20	0.5	4.0	26
1×0.75	24/0.20		0.5	4.2	30
1×1.0	32/0.20		0.55	4.5	34
1×1.5	30/0.25		0.55	4.8	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



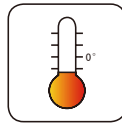
耐冲击



高柔软



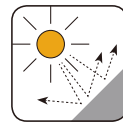
耐冷



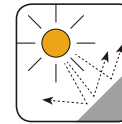
耐焊接热



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



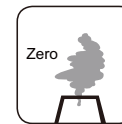
低腐蚀性
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453



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