

4GKW-AXplus-DW FE180 1.8/3KV Dual Wall Single Core

Applications

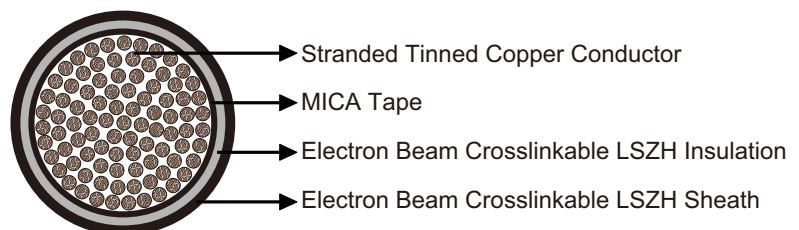
Single core power and control cable designed for protected, fixed installation inside and outside railway vehicles for connecting fixed and moving parts in direct current and alternating voltage technology, especially converter technology.



Standard

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

Construction



- **Conductors:** Circular Class 5

stranded tinned copper to IEC60228/VDE 0295.

- **Flame Barrier:** MICA tape.
- **Insulation:** Electron beam crosslinkable LSZH compound.
- **Sheath:** Electron beam crosslinkable LSZH compound.

Electrical Characteristics at 20°C

Nominal Conductor Cross Section	mm ²	1.5	2.5	4.0	6.0	10	16	25	35	50
Maximum Conductor Resistance	Ω/km	13.7	8.21	5.09	3.39	1.95	1.24	0.795	0.565	0.393
Voltage Rating	KV	1.8/3.0								

Nominal Conductor Cross Section	mm ²	70	95	120	150	185	240
Maximum Conductor Resistance	Ω/km	0.277	0.21	0.164	0.132	0.108	0.0817
Voltage Rating	KV	1.8/3.0					

➤ Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)

Temperature Range: -60°C ~+120°C (Static); -40°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
1×1.5	30/0.25		1.05	4.90	38
1×2.5	50/0.25		1.15	5.35	50
1×4	56/0.30		1.25	6.10	88
1×6	84/0.30		1.30	7.00	93
1×10	80/0.40		1.30	8.10	142
1×16	119/0.41	126/0.40	1.15	9.30	210
1×25	182/0.41	196/0.40	1.50	10.8	290
1×35	266/0.41	276/0.40	1.50	12.1	400
1×50	378/0.41	396/0.40	1.60	13.8	561
1×70	348/0.51	360/0.50	1.70	16.2	760
1×95	444/0.51	475/0.50	1.90	18.0	980
1×120	551/0.51	608/0.50	1.60	20.2	1212
1×150	722/0.51	756/0.50	2.20	22.7	1520
1×185	874/0.51	925/0.50	2.40	24.6	1830
1×240	1147/0.51	1221/0.50	2.50	27.6	2411

