



3GKW-DW 0.6/1KV Dual Wall Single Core

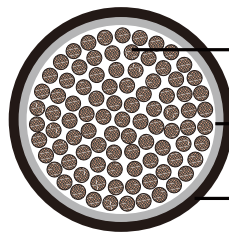
Applications

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



- Stranded Tinned Copper Conductor
- Electron Beam Crosslinkable LSZH Insulation1
- Electron Beam Crosslinkable LSZH Insulation2

Construction

- **Conductors:** Circular Class 5 stranded tinned copper to IEC60228/VDE 0295.
- **Insulation1:** Electron beam crosslinkable LSZH compound.
- **Insulation2:** Electron beam crosslinkable LSZH compound.

Electrical Characteristics at 20°C

| | | | | | | | | | | | |
|---------------------------------|-----------------|-------|------|------|------|------|------|------|------|------|------|
| Nominal Conductor Cross Section | mm ² | 0.5 | 0.6 | 0.75 | 1 | 1.2 | 1.5 | 2.0 | 2.5 | 3 | 4.0 |
| AWG | | | 20 | | 18 | 16 | | 14 | | 12 | |
| Maximum Conductor Resistance | Ω/km | 40.1 | 31.1 | 26.7 | 20.0 | 15.5 | 13.7 | 10.5 | 8.21 | 6.56 | 5.09 |
| Voltage Rating | KV | 0.6/1 | | | | | | | | | |

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 |
|--|--|---------|------------------------------------|--------------------------------|-------------------------|
| 1×0.5 | 19/0.18 | 16/0.20 | 0.2 | 1.3 | 5.5 |
| 1×0.6 | 19/0.20 | | 0.2 | 1.39 | 6.5 |
| 1×0.75 | 19/0.22 | 24/0.20 | 0.2 | 1.52 | 8 |
| 1×1.0 | 19/0.25 | 32/0.20 | 0.2 | 1.67 | 10 |
| 1×1.2 | 19/0.28 | | 0.2 | 1.83 | 12 |
| 1×1.5 | 19/0.31 | 30/0.25 | 0.3 | 2.04 | 15 |
| 1×2.0 | 37/0.25 | | 0.3 | 2.29 | 19 |
| 1×2.5 | 19/0.40 | 50/0.25 | 0.3 | 2.54 | 24 |
| 1×3 | 37/0.32 | | 0.3 | 2.78 | 29 |
| 1×4 | 56/0.30 | | 0.4 | 3.21 | 39 |

