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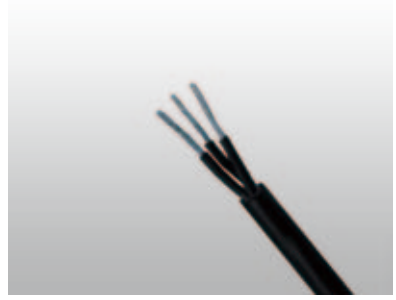
# 3GKW-RW/S EMC 0.6/1KV
# Thin Wall Screened Multicore

## ↘ Applications

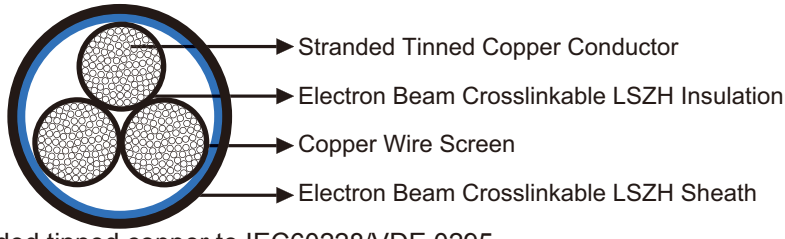
Multi core power and control cable designed for protected, fixed installation inside and outside railway vehicles for connecting fixed and moving parts in direct current and alternating voltage technology, especially converter technology.



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

## ↘ Electrical Characteristics at 20℃

| Nominal Conductor Cross Section | mm² | 0.5 | 0.75 | 1 | 1.5 | 2.5 |
|---|---|---|---|---|---|---|
| Maximum Conductor Resistance | Ω/km | 40.1 | 26.7 | 20.0 | 13.7 | 8.21 |
| Voltage Rating | KV | 0.6/1 | | | | |

## ↘ Mechanical and Thermal Properties

Minimum Bending Radius: 4xOD (Static); 8xOD (Flexing)
Temperature Range: -60℃ ~+120℃ (Static); -40℃ ~+90℃ (Flexing)
Short Circuit Temperature: +280℃

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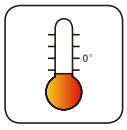
## ↘ Dimensions and Weight

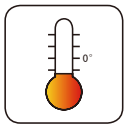
| No. of cores& Nominal Conductor Cross Sectional Area No.×mm² | Number and Nominal Diameter of Strands No/mm | | Nominal Insulation Thickness mm | Nominal Overall Diameter mm | Nominal Weight kg/km |
|---|---|---|---|---|---|
| 2×0.5 | 19/0.18 | 16/0.20 | 0.3 | 4.8 | 42 |
| 3×0.5 | 19/0.18 | 16/0.20 | 0.3 | 5.3 | 51 |
| 4×0.5 | 19/0.18 | 16/0.20 | 0.3 | 5.4 | 56 |
| 6×0.5 | 19/0.18 | 16/0.20 | 0.3 | 6.5 | 82 |
| 15×0.5 | 19/0.18 | 16/0.20 | 0.3 | 9.0 | 167 |
| 2×2×0.5 | 19/0.18 | 16/0.20 | 0.3 | 7.2 | 80 |
| 3×2×0.5 | 19/0.18 | 16/0.20 | 0.3 | 8.1 | 98 |
| 4×2×0.5 | 19/0.18 | 16/0.20 | 0.3 | 9.3 | 131 |
| 12×2×0.5 | 19/0.18 | 16/0.20 | 0.3 | 13.0 | 276 |
| 2×0.75 | 19/0.22 | 24/0.20 | 0.3 | 5.0 | 48 |
| 4×0.75 | 19/0.22 | 24/0.20 | 0.3 | 6.0 | 72 |
| 6×0.75 | 19/0.22 | 24/0.20 | 0.3 | 7.2 | 103 |
| 10×0.75 | 19/0.22 | 24/0.20 | 0.3 | 8.7 | 152 |
| 18×0.75 | 19/0.22 | 24/0.20 | 0.3 | 11.0 | 244 |
| 3×2×0.75 | 19/0.22 | 24/0.20 | 0.3 | 9.0 | 127 |
| 2×1.0 | 19/0.25 | 32/0.20 | 0.3 | 5.6 | 60 |
| 3×1.0 | 19/0.25 | 32/0.20 | 0.3 | 6.0 | 76 |
| 4×1.0 | 19/0.25 | 32/0.20 | 0.3 | 6.5 | 88 |
| 6×1.0 | 19/0.25 | 32/0.20 | 0.3 | 7.8 | 114 |
| 8×1.0 | 19/0.25 | 32/0.20 | 0.3 | 8.9 | 171 |
| 25×1.0 | 19/0.25 | 32/0.20 | 0.3 | 13.8 | 392 |
| 2×2×1.0 | 19/0.25 | 32/0.20 | 0.3 | 8.3 | 117 |
| 2×1.5 | 19/0.31 | 30/0.25 | 0.3 | 6.5 | 86 |
| 3×1.5 | 19/0.31 | 30/0.25 | 0.3 | 6.8 | 95 |
| 4×1.5 | 19/0.31 | 30/0.25 | 0.3 | 7.4 | 118 |
| 6×1.5 | 19/0.31 | 30/0.25 | 0.3 | 9.0 | 168 |
| 18×1.5 | 19/0.31 | 30/0.25 | 0.3 | 14.4 | 452 |
| 2×2.5 | 19/0.40 | 50/0.25 | 0.4 | 7.8 | 122 |
| 6×2.5 | 19/0.40 | 50/0.25 | 0.4 | 11.4 | 268 |


Impact Resistant


Highly Flexible


Cold Resistant


Soldering Heat Resistant


Low Temperature Resistant


Corona Resistant


Fire Retardant
NF C32-070-2.2(C1)
IEC 60332-3/EN50266

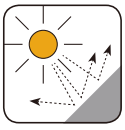

Flame Retardant
NF C32-070-2.1(C2)
IEC 60332-1/EN 50265-2-1


Low Corrosivity
EN 50267-2-2/NF C32-074
IEC 60754-2/NF C20-453


IRM 903 Fuel Oil Resistant


IRM 902 Mineral Oil Resistant


UV Resistant


Ozone Resistant


Acid and Alkali Resistant


Abrasion Resistant


Low Smoke Emission
IEC 61034/NFC20-902
EN 50268/NF C32-073


Low Toxicity

Zero Halogen
IEC 60754-1/NF C20-454
EN 50267-2-1