



Designed for constantly moving applications, for use in free movement without tensile stress and in drag-chains under heavy duty conditions. Robust insulation material is used to prevent breakage due to bending so the cable may not feel extra flexible. The overall braid screen provides protection against electronic interference.

Suitable for installation indoors or outdoors, in dry, moist or wet areas and where exposed to harsh mechanical strain or sharp/rough surfaces.

Construction

extra fine stranded plain copper conductors
polyvinylchloride (PVC), polypropylene (PP) or thermoplastic elastomer (TPE) core insulation
cores twisted in layers with textile wrapping
optional bedding & tinned copper braid screen
grey polyurethane (PUR) outer sheath

Technical

| | |
|----------------------|---|
| conductor stranding: | according to class 6 (VDE 0295 / IEC 60228 / BS EN 60228:2005) |
| bend radius: | 4 x overall diameter (O/D) fixed, 7.5 x O/D flexing |
| voltage rating: | 300/500V operating, 2000V test |
| current rating: | see YY, SY & CY derivative chart |
| temperature range: | -5°C to +70°C flexible, -40°C to +80°C static |
| standards: | construction generally to VDE 0245 & VDE 0285 flame retardant according to IEC 60332-1-2 |
| core identification: | OZ, usually 2 core = numbered black cores without earth (green/yellow) JZ, usually 3+ cores = numbered black cores with earth (inc. in core count) |

| Number of Cores | Conductor Area (mm ²) | Overall Diameter (mm) | Overall Weight (kg/km) | Number of Cores | Conductor Area (mm ²) | Overall Diameter (mm) | Overall Weight (kg/km) |
|-----------------|-----------------------------------|-----------------------|------------------------|-----------------|-----------------------------------|-----------------------|------------------------|
| 2 | 0.5 | 8.1 | 70 | 25 | 0.5 | 17.7 | 350 |
| 3 | 0.5 | 8.6 | 80 | 36 | 0.5 | 18.6 | 488 |
| 4 | 0.5 | 9.0 | 91 | | | | |
| 5 | 0.5 | 9.5 | 112 | 2 | 0.75 | 8.4 | 81 |
| 7 | 0.5 | 10.7 | 125 | 3 | 0.75 | 8.8 | 98 |
| 12 | 0.5 | 13.0 | 187 | 4 | 0.75 | 9.8 | 115 |
| 14 | 0.5 | 13.6 | 212 | 5 | 0.75 | 10.4 | 131 |
| 18 | 0.5 | 14.7 | 262 | 7 | 0.75 | 11.7 | 171 |
| 20 | 0.5 | 15.3 | 287 | 12 | 0.75 | 13.6 | 243 |
| | | | | | | | |

| Number of Cores | Conductor Area (mm ²) | Overall Diameter (mm) | Overall Weight (kg/km) | Number of Cores | Conductor Area (mm ²) | Overall Diameter (mm) | Overall Weight (kg/km) |
|-----------------|-----------------------------------|-----------------------|------------------------|-----------------|-----------------------------------|-----------------------|------------------------|
| 14 | 0.75 | 14.2 | 276 | 14 | 1.5 | 18.3 | 477 |
| 18 | 0.75 | 15.5 | 356 | 18 | 1.5 | 20.3 | 595 |
| 20 | 0.75 | 17.2 | 375 | 20 | 1.5 | 21.1 | 647 |
| 25 | 0.75 | 18.9 | 479 | 25 | 1.5 | 23.1 | 792 |
| 36 | 0.75 | 20.7 | 625 | 34 | 1.5 | 25.2 | 1028 |
| | | | | 42 | 1.5 | 28.8 | 1236 |
| 2 | 1.0 | 8.8 | 98 | 50 | 1.5 | 31.3 | 1444 |
| 3 | 1.0 | 9.2 | 125 | | | | |
| 4 | 1.0 | 9.7 | 149 | 3 | 2.5 | 11.7 | 230 |
| 5 | 1.0 | 10.4 | 173 | 4 | 2.5 | 12.6 | 303 |
| 7 | 1.0 | 12.6 | 225 | 5 | 2.5 | 13.5 | 398 |
| 12 | 1.0 | 14.8 | 295 | 7 | 2.5 | 16.0 | 510 |
| 14 | 1.0 | 15.4 | 343 | 12 | 2.5 | 22.2 | 722 |
| 18 | 1.0 | 16.8 | 439 | 14 | 2.5 | 23.0 | 806 |
| 20 | 1.0 | 17.5 | 487 | 18 | 2.5 | 25.8 | 974 |
| 25 | 1.0 | 20.9 | 610 | 25 | 2.5 | 30.1 | 1268 |
| 34 | 1.0 | 23.7 | 826 | | | | |
| 36 | 1.0 | 24.9 | 874 | 4 | 4.0 | 17.8 | 453 |
| 41 | 1.0 | 25.7 | 996 | 5 | 4.0 | 18.3 | 528 |
| 50 | 1.0 | 27.8 | 1212 | | | | |
| 65 | 1.0 | 31.5 | 1572 | 4 | 6.0 | 20.3 | 602 |
| | | | | 5 | 6.0 | 21.8 | 735 |
| 2 | 1.5 | 10.2 | 138 | | | | |
| 3 | 1.5 | 10.8 | 164 | 4 | 10.0 | 22.0 | 948 |
| 4 | 1.5 | 11.7 | 191 | 5 | 10.0 | 26.0 | 1077 |
| 5 | 1.5 | 11.9 | 233 | | | | |
| 7 | 1.5 | 13.8 | 285 | 4 | 16.0 | 25.2 | 1405 |
| 12 | 1.5 | 17.1 | 425 | 5 | 16.0 | 32.0 | 1790 |
| | | | | | | | |

PUR Properties: UV resistant, inflammable material with excellent abrasion and tear resistance. Good resistance to water and mineral oils. Poor resistance to acids and alkalis and no resistance to organic solvents.

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