

RE-2Y(St)Y-fl-PiMF/TiMF



Areas of Use

Used for communication and instrumentation purposes in industries like oil exploration, cement, paper, steel, power generation as well as in intrinsically safe systems in hazardous areas like petrochemical plants and thermal power plants to monitor measuring equipment in process automation applications.

Cable Construction

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|----------------------------|---|
| Conductor | Stranded Annealed Copper (IEC/EN 60228, Class 2) |
| Insulation | PE (EN 50290-2-23) |
| Core Colors | Pair: Black / White, Numbered Triples: Black / White / Red, Numbered Quad: Black / White / Red / Blue, Numbered |
| Separator | PET Foil |
| Individual Screen | Al-PET Foil (with 0.60 mm Tinned Copper Drain Wire) |
| Lay-up | Shielded pairs / triples / quads are stranded in layers |
| Separator | PET Foil |
| Overall Screen | Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire) |
| Outer Sheath | UV Resistant, Flame Retardant PVC (EN 50290-2-22), RAL 7000 - Grey, RAL 5015 - Blue (other colors open request) |
| Reference Standards | BS/EN 50288-7 |

Technical Properties

| | |
|---------------------------------------|--|
| Operating Voltage | 500 V* |
| Test Voltage | Core - Core: 2000 V; Core - Screen: 1000 V |
| Conductor Resistance | 0.50 mm ² - ≤36 Ω/km; 0.75 mm ² - ≤24.5 Ω/km; 1.00 mm ² - ≤18.1 Ω/km; 1.30 mm ² - ≤14.2 Ω/km; 1.50 mm ² - ≤12.1 Ω/km; 2.50 mm ² - ≤7.41 Ω/km |
| Insulation Resistance | >5000 M.Ωxkm |
| Capacitance Unbalance (800 Hz) | ≤500 pF/500m |
| Capacitance (@800Hz) | ≤115 nF/km (Capacitance values may increase by 20% up to 4 pairs) |
| L/R Ratio | 0.50 mm ² ..1.00 mm ² - ≤25 μH/Ω; 1.30 mm ² ..1.50 mm ² - ≤40 μH/Ω; 2.50 mm ² - ≤60 μH/Ω |
| Temperature Range | Fixed: -40 °C+70 °C, Flexible: -5 °C+50 °C |
| Flame Retardancy | IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C) |
| Oil Resistance | IEC/EN 60811-404, ASTM No 2 oil 70 °C 4 hours |
| Min. Bending Radius (Fixed) | 8 x Cable Diameter |

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