

BO-INSTRU RE-Y(St)Y-fl

Instrumentation Cables | Overall Shielded- Unarmoured



Image for illustration only

Conductor:	Stranded Annealed Copper (IEC/EN 60228, Class 2)
Insulation:	PVC (EN 50290-2-21)
Colour Code:	Multicore: White Numbered Pair: Black/White, Numbered Triples: Black/White/Red, Numbered Quad: Black/White/Red/Blue, Numbered
Lay-Up:	Cores / pairs / triples / quads are stranded in layers
Separator:	PET Foil
Wrapping:	At least 1 layer of plastic tape 0,023 mm + interstitial Fillers (IEC/EN 60079-14)
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 9005 – Black, RAL 5015 – Blue (other colors upon request)
Reference Standards:	BS/EN 50288-7
Technical Data & Standard References	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 Insulation Resistance: >10 M.Ωxkm
Electrical & Mechanical Data	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 Capacitance Unbalance (800 Hz): ≤500 pF/500m Capacitance (@800Hz): ≤250 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

Application:

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.