



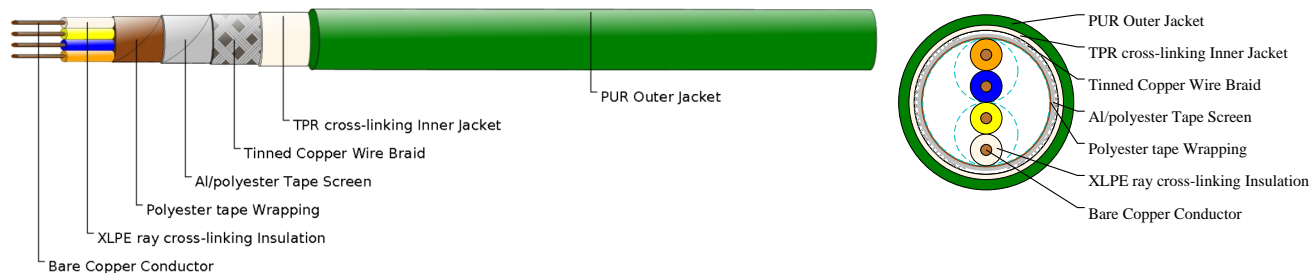
Caledonian

Bus Cables

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ProfiNet Type A Radiation Resistant 1P0.64 mm



APPLICATIONS

Industrial Ethernet ProfiNet cables are designed to provide reliable network communications in the demanding Industrial and Process Control environment where difficult EMC conditions are pervasive. Conforming to the EIA/TIA-568 standard, These Cables support half-duplex high speed communications. It ensures superior transmission properties and can be used even under most severe conditions.

CABLE CONSTRUCTION

Conductor: Bare copper conductor, AWG 22/1

Insulation: XLPE ray cross-linking

Stranding Element: Star quad

Wrapping: Polyester foil over stranded bundle

Shielding: Polyester foil, aluminum-lined

Total Shielding: Tinned copper wire braid

Inner Jacket: TPR cross-linking

Outer Jacket: PUR

COLOUR CODE

Insulation Colors: White, Yellow, Blue, Orange

Outer Jacket Color: Green

PHYSICAL AND THERMAL PROPERTIES

Characteristic Impedance@1-100Hz: $100 \Omega \pm 15 \Omega$

Conductor Resistance: 62 Ohm/km max

Insulation Resistance: 0.5 GOhm x km min

Mutual Capacitance: 50.0 nF/km nom

Working Voltage: 300 V

Test Voltage: 1.5 KV

Min. Bending Radius (Laying): 46 x OD mm

Operating Temp. Range, min.: -40 °C

Operating Temp. Range, max.: +70 °C

DIMENSION AND PARAMETERS



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Cable Construction	Approx. Overall Diameter	Approx. Weight
	mm	kg/km
1x2x0.64 mm	6.5±0.2	63