



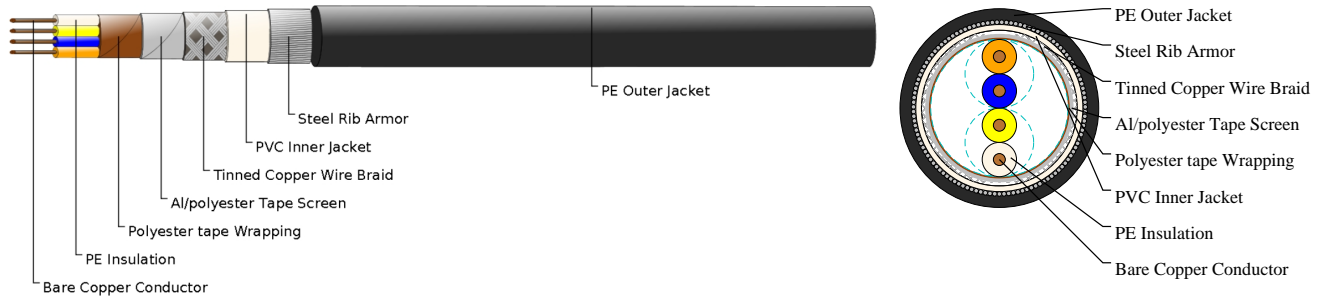
# Caledonian

## Bus Cables

[www.caledonian-cables.com](http://www.caledonian-cables.com)

[marketing@caledonian-cables.com](mailto:marketing@caledonian-cables.com)

### ProfiNet Type A Radiation Resistant & Armored 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: PE

Stranding Element: Star quad

Wrapping: Polyester foil over stranded bundle

Shielding: Polyester foil, aluminum-lined

Total Shielding: Tinned copper wire braid

Armoring: Steel Rib

Inner Jacket: PVC

Outer Jacket: PE

### COLOUR CODE

Insulation Colors: White, Yellow, Blue, Orange

Outer Jacket Color: Black

### 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): 93 x OD mm

Operating Temp. Range, min.: -40 °C

Operating Temp. Range, max.: +70 °C



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## DIMENSION AND PARAMETERS

Cable Construction	Approx. Overall Diameter	Approx. Weight
	mm	kg/km
1x2x0.64 mm	9.3±0.5	124