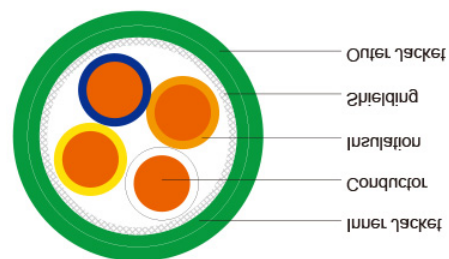


**ProfiNet Type A Radiation Resistant & Armored**



**Application:**

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.

**Construction:**

<b>Type/Area of Application</b>	Ray loaded areas	Fixed Installation, Outdoor
<b>Cable Construction</b>	2x2x0.64 mm	2x2x0.64 mm
<b>Inner Conductor Diameter</b>	Copper, bare (AWG 22/1)	Copper, bare (AWG 22/1)
<b>Conductor Insulation</b>	XLPE ray cross-linking	PE
<b>Conductor Colors</b>	white, yellow, blue, orange	white, yellow, blue, orange
<b>Stranding Element</b>	Star quad	Star quad
<b>Shielding 1</b>	Polyester foil over stranded bundle	Polyester foil over stranded bundle
<b>Shielding 2</b>	Polyester foil, aluminum-lined	Polyester foil, aluminum-lined
<b>Total Shielding</b>	Cu braid, tinned	Cu braid, tinned
<b>Armoring</b>	-	Steel Rib
<b>Inner Jacket Material</b>	TPR cross-linking	PVC
<b>Outer Jacket Material</b>	PUR	PE
<b>Outer Diameter</b>	6.5 mm ± 0.2 mm	9.3 mm ± 0.5 mm
<b>Outer Jacket Color</b>	Green	Black

**Electrical Data:**

<b>Characteristic Impedance@1-100 MHz</b>	100 Ω ± 15 Ω
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<b>Conductor Resistance</b>	62.0 Ohm/km max.	
<b>Insulation Resistance</b>	0.50 GOhm x km min.	
<b>Mutual Capacitance</b>	50.0 nF/km nom.	
<b>Working Voltage</b>	300V	
<b>Test Voltage</b>	1.5 KV	
<b>Attenuation</b>	10 MHz	5.2 dB/100m
	16 MHz	6.9 dB/100m
	62.5 MHz	16.0 dB/100m
	100 MHz	19.5 dB/100m

Technical Data:

<b>Weight:</b>	approximately 63.0 kg/km	approximately 124.0 kg/km
<b>Min. Bending Radius (Laying)</b>	46.0 mm	93.0 mm
<b>Operating Temp.Range, min.</b>	-40 °C	-40 °C
<b>Operating Temp.Range, max.</b>	+80 °C	+70 °C