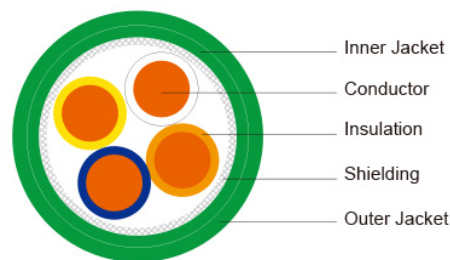


ProfiNet Type A



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:

Type/Area of Application	Fixed Installation, Indoor	Heavy duty
Cable Construction	2x2x0.64 mm	2x2x0.64 mm
Inner Conductor Diameter	Copper, bare (AWG 22/1)	Copper, bare (AWG 22/1)
Conductor Insulation	PE	PE
Conductor Colors	white, yellow, blue, orange	white, yellow, blue, orange
Stranding Element	Star quad	Star quad
Shielding 1	Polyester foil over stranded bundle	Polyester foil over stranded bundle
Shielding 2	Polyester foil, aluminum-lined	Polyester foil, aluminum-lined
Total Shielding	Cu braid, tinned	Cu braid, tinned
Inner Jacket Material	PVC	PVC
Outer Jacket Material	PVC	PUR
Outer Diameter	6.5 mm ± 0.2 mm	6.5 mm ± 0.2 mm
Outer Jacket Color	Green	Green

Electrical Data:

Characteristic Impedance@1-100 MHz	100 Ohm ± 15 Ohm
Conductor Resistance	62.0 Ohm/km max.

Insulation Resistance	0.50 GOhm x km min.	
Mutual Capacitance	50.0 nF/km nom.	
Working Voltage	300V	
Test Voltage	1.5 KV	
Attenuation	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:

Weight:	approximately 67.0 kg/km	approximately 64.0 kg/km
Min. Bending Radius (Laying)	5 x OD mm	10 x OD mm
Operating Temp.Range, min.	-40 °C	-40 °C
Operating Temp.Range, max.	+70 °C	+70 °C