



## ProfiNet Type B

### 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.



### Constructon:

Type/Area of Application	Mobile Use
Cable Construction	2x2x0.64 mm (stranded) + 4x1.5 mm <sup>2</sup>
Inner Conductor Diameter 1	Copper, tinned (AWG 22/7)
Inner Conductor Diameter 2	Copper, bare (AWG 16/84)
Conductor Insulation 1	Foam-Skin-PE
Conductor Insulation 2	Foam-Skin-PE
Conductor Colors 1	white, yellow, blue, orange
Conductor Colors 2	Black
Stranding Element	Double Conductor
Wrapping	Polyester foil over stranded bundle
Shielding	Polyester foil, aluminum lined
Total Shielding	Polyester foil
Outer Jacket Material	FRNC
Outer Diameter	10.3 mm ± 0.3 mm
Outer Jacket Color	Green





## Electrical Data:

Characteristic Impedance@1-100 MHz	100 Ω ± 15 Ω	
Conductor Resistance	60.0 Ohm/km max.	
Insulation Resistance	0.50 GOhm x km min.	
Mutual Capacitance	52.0 nF/km nom.	
Working Voltage	300V	
Test Voltage	1.5 KV	
Attenuation	10 MHz	6.3 dB/100m
	16 MHz	8.0 dB/100m
	62.5 MHz	16.5 dB/100m
	100 MHz	21.3 dB/100m

## Technical Data:

Weight	approximately 153.0 kg/km
Min. Bending Radius for Laying	10 x OD mm
Operating Temperature Range, min.	-40 °C
Operating Temperature Range, max.	+70 °C

