

2YY(St)CY Profinet Cable

22AWG, SFTP with PVC Sheath

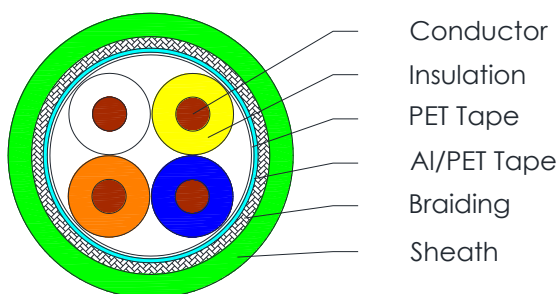


C4644

Applications

High speed cable for Industrial Ethernet in both dry and wet fixed installations. The cable meets transmissions Category 5e IEC 61156-5 standard under Ed.2 and complies with the PROFINET installation guide 100Mbit / s

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Annealed bare Copper Wire
Insulation	Solid Polyethylene Core 1: White Core 2: Yellow Core 3: Blue Core 4: Orange
Cabling	4 conductors wired in training star with central filling + polyester tape to the set
Wrapping Tape	PET Tape
Screen	Aluminium/Polyester tape
Braiding	Tinned Copper Wire
Sheath Material	Polyvinyl Chloride (PVC) Standard Color: Green RAL 6018
Standard Put Up Length	305 metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	
Transmission Type	Cat5e
Screen type	SFTP
No. of Cores	4
Conductor Size (AMG)	22
Conductor diameter (mm)	0.64
Braiding Coverage (%)	85
Nom. Overall Diameter (mm)	6.3
Operating Temperature (°C)	-40 to 75
Nominal Cable Weight (kg/km)	56

Electrical Characteristics at 20°C

Conductor Resistance (Ohm/km)	Capacitance at 800Hz (pF/m)	Input Impedance (Ohm)	Velocity of Propagation (%)	Rated Voltage (V)	Test Voltage (V)
59	48	100 ± 15	66	125	1000

Frequency (MHz)	Return Loss (dB/100m)	Maximum Attenuation (dB/100m)	Minimum NEXT (dB)	Maximum Time Delay (ns/100m)	Minimum PSNEXT (dB)	Minimum ELFEXT (dB)	Minimum PSELFEXT (dB)
1	20.0	2.0	65.3	570.00	62.3	63.8	60.8
4	23.0	4.1	56.3	552.00	53.3	51.7	48.7
8	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20	25.0	9.3	45.8	542.05	42.8	37.7	34.7
25	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.55	35.4	27.8	24.8
100	20.1	22.0	35.3	537.60	32.3	23.8	20.8

Reference Standards

ISO 11801, ANSI/TIA/EIA-568-C2	CENELEC EN 50288-6-1
IEC 60332-1	RoHS directives