

Category 7A Datacable 23AWG, S-FTP Data Cable, PVC or HFFR Sheath

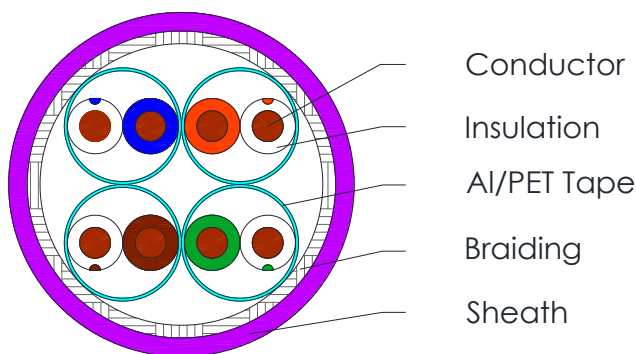


C4544, C5449

Applications

Twisted pair cable suitable for High Speed Local Area Networks and Analogue & Digital video applications.

Cross Section Drawing



- Conductor
- Insulation
- Al/PET Tape
- Braiding
- Sheath

Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	Foamed Polyethylene Pair 1: WHITE/Blue + BLUE Pair 2: WHITE/Orange + ORANGE Pair 3: WHITE/Green + GREEN Pair 4: WHITE/Brown + BROWN
Pair	Two wires twisted together
Individually Screened pairs	Aluminium/Polyester foil tape
Collective Braiding	Tinned Copper wire
Rip Cord	Nylon Yarn
Sheath Material	Halogen-Free, Fire Retardant (HFFR) Standard Colour: Purple or Flame-Retardant Polyvinyl Chloride (PVC) Standard colour: Grey
Standard Put Up Length	305 or 500 or 1000 Metres

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

Category 7A Datacable

23AWG, S-FTP Data Cable, PVC or HFFR Sheath



C4544, C5449

Physical Characteristics

Part Number	C4544	C5449
Sheath type	PVC	LSZH-HFFR
No. of Pairs	4	
Conductor Size (AWG)	23	
Individual Screen Coverage (%)	115	
Braiding Coverage (%)	30	
Nom. Radial Thickness Sheath (mm)	0.50	
Nom. Overall Diameter (mm)	8.0	
Operating Temperature (°C)	-20°C to +75°C	
Min. Bend Radius (install) (mm)	80	
Nominal Cable Weight (kg/km)	75	
Maximum Pulling Tension (Newton)	160	

Electrical Characteristics

Conductor Resistance (Ohm/100m)	Nom. Impedance (Ohm)	Mutual Capacitance (pF/km)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
5.79	100	48	72	45	300

Freq. (MHz)	Min. Return Loss (dB)	Max. Attenuation (dB/100m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. EL FEXT (dB)	Min. PSEL FEXT (dB)
1	20	2.1	78.0	75.0	78.0	75.0
4	23	3.7	78.0	75.0	78.0	75.0
10	25	5.8	78.0	75.0	75.3	72.3
16	25	7.3	78.0	75.0	71.2	68.2
31.25	23.6	10.3	78.0	75.0	65.4	61.4
62.5	21.5	14.6	78.0	75.0	59.4	56.4
100	20.1	18.5	75.4	72.4	55.3	52.3
250	17.3	29.7	69.4	66.4	47.3	44.3
300	17.3	32.7	68.2	65.2	45.8	42.8
400	17.3	38.0	66.4	63.4	43.3	40.3
550	17.3	45	64.3	61.3	40.5	37.5
600	17.3	47.1	63.7	60.7	39.7	36.7
650	17.3	49.2	63.2	60.2	39.0	36.0
750	17.3	53.1	62.3	59.3	37.8	34.8
800	17.3	54.9	61.9	58.9	37.2	34.2
900	17.3	58.5	61.1	58.1	36.2	33.2
1000	17.3	61.9	60.4	57.4	35.3	32.3

**Category 7A Databable
23AWG, S-FTP Data Cable, PVC or HFFR Sheath**



C4544, C5449

Reference Standards

ISO/IEC 11801, EN 50173-1, EN 50288-4-1	IEC 61034 (only for LSZH-HFFR)
IEC 61156	IEC 60754-1&-2 (only for LSZH-HFFR)
IEC 60332-1	RoHS directives