

Category 6 FTP PVC Cables

The Clipsal Category 6 FTP 4-Pair Cable is a superior product delivering the best network performance when used in conjunction with other Clipsal Category 6 FTP products.

The cable is constructed of 4 pairs with solid and insulated copper conductors in a foil screen and has a UL Listed CM fire rating. It is designed for use in horizontal and riser cabling and comes in a 305m roll.

As an integral part of Category 6 FTP series, this product has a lifetime warranty and system performance guarantee when installed by a Certified Clipsal Endorsed Partner/Installer.

TECHNICAL INFORMATION

Physical Specifications

Rated Temperature	75°C
Product Standard Certification	UL File E197794
Flammability Test	CM
Application	Horizontal Wiring in LAN
Reference Standard	UL Subject 444, EIA/TIA 568-B.2 & ISO/IEC 11801, IEC61156-5

CONSTRUCTION

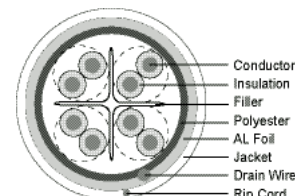
Conductor	Solid Bare Copper
AWG	23
Conductor Dia. Nom. (mm)	0.585
Insulation	PE
Average Thickness (mm)	0.28
Min. Point Thickness (mm)	0.24
Insulation Diameter (±0.10mm)	1.16
Twisting Lay Length (mm)	30 underneath
Cabling Lay Length (mm)	200 underneath
Filler	PE
Polyester Binder	YES
Drain Wire	Solid Tinned Copper
AL Foil	YES
Jacket	PVC
Average Thickness (±0.05mm)	0.50
Min. Point Thickness (mm)	0.40
Outer Diameter (±0.2mm)	7.20
Rip Cord	YES

MECHANICAL CHARACTERISTICS

Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	≥13.8
Aging Elongation (%)	≥100
Aging Condition (°C x hrs)	100 x 240
After Tensile Strength (Mpa)	≥85% of unaged
Aging Elongation (%)	≥50% of unaged
Cold Bend (-20 ± 2° C x 4hrs)	No crack



2D4P6IPVFTP3, GY



PRODUCT FEATURES

- Foil shielded to provide good level of screen.
- Centre filler to maintain pair twisting and optimum NEXT and ELFEXT performance.
- 23AWG conductors for improved Insertion Loss performance.
- UL Listed CM Fire rated.

CUSTOMER BENEFITS

- Exceeds Category 6 ANSI/TIA/EIA-568-B2-1 and ISO/IEC 11801 Standards.
- Supports Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.
- Industry leading Lifetime Warranty - unique to the market!

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ELECTRICAL CHARACTERISTICS

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	Delay (ns/100m)
1	20.0	2.0	74.3	72	72.3	67.8	64.8	570.0
4	23.0	3.8	65.3	61	63.3	55.8	52.8	552.0
8	24.5	5.3	60.8	55	58.8	49.7	46.7	546.7
10	25.0	6.0	59.3	53	57.3	47.8	44.8	545.4
16	25.0	7.6	56.2	49	54.2	43.7	40.7	543.0
20	25	8.5	54.8	46	52.8	41.8	38.8	542.0
25	24.3	9.5	53.3	44	51.3	39.8	36.8	541.2
31.25	23.6	10.7	51.9	41	49.9	37.9	34.9	540.4
62.5	21.5	15.4	47.4	32	45.4	31.9	28.9	538.6
100	20.1	19.8	44.3	25	42.3	27.8	24.8	537.6
150	18.9	24.7	41.7	16.9	39.7	24.3	21.3	536.9
200	18.0	29.0	39.8	10.8	37.8	21.8	18.8	536.5
250	17.3	32.8	38.3	5.5	36.3	19.8	16.8	536.3

1.0-100.0MHz Input Impedance (Ohms)	100±6
100-250MHz Input Impedance (Ohms)	100±6
1.0-250.0MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance 20°C (Ohms/km)	73.2
Resistance Unbalance (%)	≤5

CATALOGUE NUMBER	DESCRIPTION
2D4P6IPVFTP3, BU	Category 6, 4-Pair, FTP, PVC, CM Rated, Clipsal Titanium Cable, 305m, Blue
2D4P6IPVFTP3, GY	Category 6, 4-Pair, FTP, PVC, CM Rated, Clipsal Titanium Cable, 305m, Grey