

# Category 6 FTP LSZH 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 is LSZH rated. 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	<b>60°C</b>
Flammability Test	<b>LSZH</b>
Application	<b>Horizontal Wiring in LAN</b>
Reference Standard	<b>UL Subject 444, EIA/TIA568 &amp; ISO/IEC 11801, IEC61156-5</b>

## CONSTRUCTION

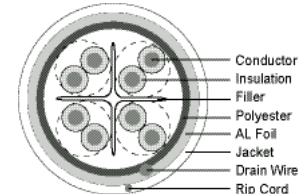
<b>Conductor</b>	<b>Solid Bare Copper</b>
AWG	<b>23</b>
Conductor Dia. Nom. (mm)	<b>0.585</b>
Insulation	<b>PE</b>
Average Thickness (mm)	<b>0.28</b>
Min. Point Thickness (mm)	<b>0.24</b>
Insulation Diameter (±0.10mm)	<b>1.16</b>
Twisting Lay Length (mm)	<b>30 underneath</b>
Cabling Lay Length (mm)	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

## MECHANICAL CHARACTERISTICS

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



**2D4P61LSFTP3,GY**



## PRODUCT FEATURES

- Foil shielded for good screening against noise.
- Centre filler to maintain pair twisting and optimum NEXT and ELFEXT performance.
- 23AWG conductors for improved Insertion Loss performance.
- ISO/IEC LSZH 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.
- Immunity to EMI.
- Industry leading Lifetime Warranty - unique to the market!

# Category 6 FTP LSZH Cables

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

CATALOGUE NUMBER	DESCRIPTION
<b>2D4P61LSFTP3, BU</b>	Category 6, 4-Pair, FTP, LSZH, Clipsal Titanium Cable, 305m, Blue
<b>2D4P61LSFTP3, GY</b>	Category 6, 4-Pair, FTP, LSZH, Clipsal Titanium Cable, 305m, Grey