



## Category 6A F/FTP - Foiled with Foiled Twisted Pair LSZH Cable

The Category 6A Foiled with Foiled Twisted Pair (F/FTP) LSZH cable with 4 x 2 x 23 AWG copper wire structure fully complies with ISO/IEC and TIA/EIA 568 standards. It is designed for use in horizontal network installations up to 500MHz. OptronicsPlus Cat6a F/FTP cable exceeds Cat6A/Class EA performance requirements and support 10G-BASE-T, 2G FCBASE-T, 4G FC-BASE-T and 1000Base-T applications. It is available with flame retardant LSZH outer jacket.

### Features

- 23 AWG conductors
- Exceeds Cat6A performance requirements
- ISO/IEC 11801 and TIA/EIA568 compliant
- 4 twisted pairs individually screened and cabled together – providing EMI immunity
- Overall aluminum polyester screen – for improved shielding efficiency and increased heat dissipation
- Available with flame retardant LSZH outer jacket
- Supplied in 305m or 500m reels
- Printed metre marks

### Applications

- Cat6a/Class EA up to 500Mhz applications
- 1000BASE-T, 2G FCBASE-T and 10GBASE-T applications
- Horizontal network installations
- Backwards compatible with Cat 5e and Cat6 distribution systems

## Specifications

### CONSTRUCTION

Conductor	23AWG solid bare copper
Conductor Nom. O.D	0.570 ± 0.01 mm
Insulation	FOPE
Insulation Nom. O.D	1.36 ± 0.1 mm
Minimum Thickness	0.40 mm (REF)
Outside Tape Wrap Material	AL-MYLAR
Drain Wire	Tinned Solid Copper
Nominal O.D.	1/0.404 ± 0.007 mm
Outer Sheath	LSZH
Average Thickness	0.55 ± 0.05 mm
Overall Diameter	7.50 ± 0.40mm
Colour	Optional
Sheath Normal Temp Tensile Strength	≥10.0
Sheath Normal Temp Elongation	≥125
Insulation Normal Temp Tensile Strength	≥10
Insulation Normal Temp Elongation	≥200
Aging Condition	100°C±2°C, 24h, 7d
Sheath After Aging Tensile Strength	≥8.0
Sheath After Aging Elongation	≥100
Temperature Rating	-20°C— + 75°C
Cold Bend ( -20±2°C×4)	8×Cable O.D., No visible cracks

## Transmission Line Performance

FREQUENCY (MHZ)	RL ≥dB	ATT ≤dB	NEXT ≥dB	ACRF ≥dB	PS NEXT dB	PS ACRF dB
4	21.0	3.5	64.1	52.1	61.8	49.1
8	21.0	5.0	59.4	46.1	57.0	43.1
10	21.0	5.5	57.8	44.2	55.5	41.2
16	20.0	7.0	54.6	40.1	52.2	37.1
20	19.5	7.8	53.1	38.2	50.7	35.2
25	19.0	8.8	51.5	36.2	49.1	33.2
31.25	18.5	9.8	50.0	34.3	47.5	31.3
62.5	16.0	14.0	45.1	28.3	42.7	25.3
100	14.0	18.0	41.8	24.2	39.3	21.2
200	11.0	26.1	36.9	18.2	34.3	15.2
250	10.0	29.5	35.3	16.2	32.7	13.2
300	8.6	35.6	31.8	13.3	29.1	10.3
400	8.0	41.1	28.2	11.1	25.3	8.1
500	8.0	43.8	26.7	10.2	23.8	7.2

## Standards Compliance

- Class EA / Category 6A
- ISO/IEC 11801 2<sup>nd</sup> Edition
- ANSI/TIA/EIA-568-C.2
- EN 50173
- IEC 61156-5
- EN 50288-3-1
- EN 50399
- IEC 60332-1-2
- IEC 60754-2
- IEC 61034
- RoHS
- REACH

## Ordering Information

DESCRIPTION	PART NUMBER
Category 6A F/FTP LSZH Cable Violet - 305m Reel	OCC-6A-51-305
Category 6A F/FTP LSZH Cable Violet - 500m Reel	OCC-6A-51-500

## Additional Images

