



Category 6 SF/UTP - Shielded Foiled Twisted Pair LSZH Cable

The Category 6 Shielded Foiled Twisted Pair (SF/UTP) 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 250MHz. OptronicsPlus Cat6 SF/UTP cable exceeds Cat6/Class E performance requirements and support 10-BASE-T, 100-BASE-TX and 1000Base-T applications. It is available with flame retardant LSZH outer jacket.

Features

- 23 AWG conductors
- Exceeds Cat6 performance requirements
- ISO/IEC 11801 and TIA/EIA568 compliant
- Available with flame retardant LSZH outer jacket
- Supplied in 305m or 500m reels
- Printed metre marks

Applications

- Cat6/Class E up to 250Mhz applications
- 10BASE-T, 100BASE-TX, 1000Base-T applications
- Horizontal network installations
- Ideal for environments where heavy external interference can disrupt signal such as EMI
- Backwards compatible with Category 5e distribution systems

Specifications

CONSTRUCTION

Conductor	23AWG solid copper (0.57 ± 0.008 mm)
Insulation	HDPE
Nominal OD	1.15mm ± 0.10mm
Minimum Thickness	0.29mm
Cable	4 Pairs Foiled Twisted Pair screened
Central Element Nom. O. D	5.8 (REF)+CROSS
Outside Tape Wrap	ALMYLAR
Braid Material	Aluminium Magnesium Alloy Wire
Nom. O. D	16/5/0.12±0.01
Sheath	LSZH
Average Thickness	0.55 ± 0.05 mm
Diameter	7.60mm ± 0.35mm
Sheath Normal Temp Tensile Strength	≥14
Sheath Normal Temp Elongation	≥600
Insulation Normal Temp Tensile Strength	≥16
Insulation Normal Temp Elongation	≥300
Aging Condition	100°C ± 2°C, 24h, 7d
Sheath After Aging Tensile Strength	≥9.8
Sheath After Aging Elongation	≥420
Temperature Rating	-20°C - + 75°C
Cold Bend (-20 ± 2°C × 4)	8 × Cable O.D. No visible cracks

Transmission Line Performance At 20°C

FREQUENCY MHZ	RL ≥dB	ATT ≤dB	NEXT ≥dB	ACRF ≥dB	PS NEXT dB	PS ACRF dB
1	19.0	3.0	65.0	64.2	62.0	61.2
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	7.9	53.1	38.2	50.7	35.2
25	19.0	8.9	51.5	36.2	49.1	33.2
31.25	18.5	10.0	50.0	34.3	47.5	31.3
62.5	16.0	14.4	45.1	28.3	42.7	25.3
100	14.0	19.6	41.8	24.2	39.3	21.1
200	11.0	27.4	36.9	18.2	34.3	15.2
250	10.0	31.1	35.3	16.2	32.7	13.2

Standards Compliance

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

Ordering Information

DESCRIPTION	PART NUMBER
Category 6 SF/UTP LSZH Cable Violet - 305m Reel	OCC-6-41-305
Category 6 SF/UTP LSZH Cable Violet - 500m Reel	OCC-6-41-500

Additional Images

