

CAT6 UTP - Double Sheath Data Cable

PRODUCT DESCRIPTION

23 AWG copper wire insulated with Polyethylene. Two insulated conductors twisted together to form a pair and four such pairs separated by a cross filler form the core unit sheathed with flame retardant PVC/LSZH and Jacketed with Outer UV Stabilized FRLS, PE or LSZH Material.

FEATURES

Flame Rating

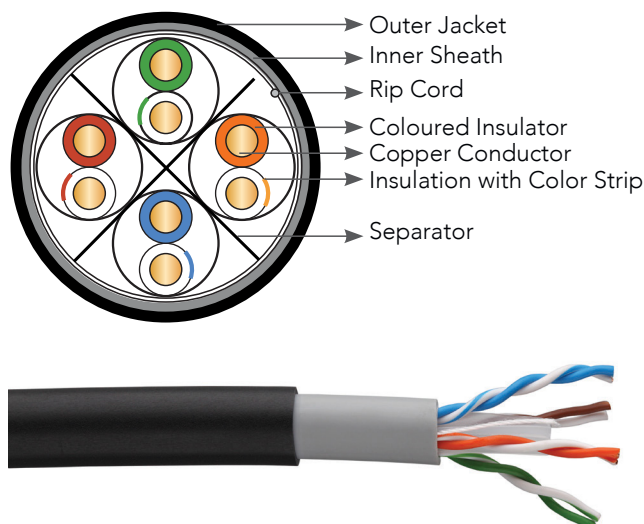
FRLS / LSZH-IEC 60332-1; IEC 60754 1&2
Specified and tested up to 250MHz
Compliant to American Standard ANSI/TIA 568-C.2 Cat6,
International Standard ISO/IEC 11801 Class E
25 years system warranty available

PRODUCT APPLICATION

10 Base T (IEEE 802.3)
100 Base T (IEEE 802.3U)
1000 BASE-T (IEEE 802.3ab)
1000 BASE-TX
TP-PMD (ANSI X3T9.5)
100 Mbps CDDI
ATM 155
4/16 Mbps Token Ring (IEEE 802.5)
Meets IEEE802.3af & 802.3at PoE
Suitable for Outdoor Application.
LSZH sheath facilitates Indoor /Outdoor Applications

JACKET COLOURS

Black or Customer Specific Colours



COLOUR CODE

PAIR	SPECIFICATIONS
1	Blue - White Blue
2	Orange - White Orange
3	Green - White Green
4	Brown - White Brown

PRODUCT SPECIFICATION

Mechanical & Environmental Characteristics

CHARACTERISTIC	SPECIFICATIONS
Maximum tensile load	110 N (installation)
Minimum bend radius	20 x cable outer diameter
Temperature	10°C to +60°C (installation) -30°C to +75°C (operation)



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Electrical Characteristics meet or exceed 70 Meter TIA Cat6 Channel Spec

Frequency	Insertion Loss (dB)	NEXT (dB)	ACR-N (dB)	RL (dB)	PS NEXT (dB)	PS ACR-N (dB)	ACR-F (dB)	PS ACR-F (dB)
1	3	65	62	19	62	59	63.3	60.3
4	4	63	59	19	60.5	56.5	51.2	48.2
8	5.7	58.2	52.5	19	55.6	49.9	45.2	42.2
10	6.3	56.6	50.2	19	54	47.7	43.3	40.3
16	8	53.2	45.2	18	50.6	42.6	39.2	36.2
20	9	51.6	42.6	17.5	49	39.9	37.2	34.2
25	10.1	50	39.9	17	47.3	37.2	35.3	32.3
31.25	11.4	48.4	37	16.5	45.7	34.3	33.4	30.4
62.5	16.5	43.4	26.9	14	40.6	24.1	27.3	24.3
100	21.3	39.9	18.6	12	37.1	15.8	23.3	20.3
200	31.5	34.8	3.3	9	31.9	0.3	17.2	14.2
250	35.9	33.1	-2.8	8	30.2	-5.8	15.3	12.3

ELECTRICAL PROPERTIES @20 DEG C

CHARACTERISTICS	SPECIFICATIONS
Characteristic Impedance	100+/- 15 Ohms
Conductor Resistance	Max < 9.38 Ohms/100m
Conductor Resistance Unbalance	Max 5%
Mutual Capacitance	5.6nF/100m
Delay Skew	Max 45 ns/100m
Propagation Delay	< 536 ns/100m @ 250MHz

PACKAGING

305m - Reel
500m / 1000m - Reel

STERLITE P/N	PRODUCT DESCRIPTION	OUTTER DIAMETER (MM NOM.)
MK-C6U23PEP	Cat 6 4x2x23 AWG U/UTP, PVC,PE	7.2
MK-C6U23PEL	Cat 6 4x2x23 AWG U/UTP, LSZH,PE	7.2

USA & CANADA

Tel +1-646-8512555
info@microlinknet.com
70 East Sunrise Highway Valley Stream,
NY 11581, New York

EUROPE

Tel +44-20-37695558
uk@microlinknet.com
4th Floor, 18 St. Cross Street,
London, EC1N 8UN

MIDDLE EAST

Tel +971-4-5561554
mena@microlinknet.com
Building 11, Level 7, Bay Square,
Business Bay, Dubai, UAE

