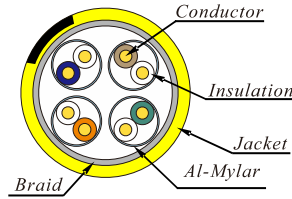
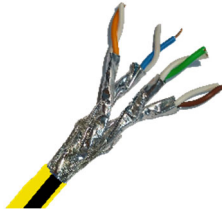




TFL2304SXX

S/FTP, 23AWG solid bare copper, CAT.6A, CMX OUTDOOR-LSZH, 500MHz



CONSTRUCTION

Conductors	23 AWG solid bare annealed copper
Insulation	Polyolefin (PO)
Color Code	Pair 1: Blue & white Pair 2: Orange & white Pair 3: Green & white Pair 4: Brown & white
Separator	N/A
Core Tape	N/A
Drain wire	N/A
Pair shield	Al Mylar
Braid	Tinned copper
Jacket	Low smoke zero halogen (LSZH)

Marking

ELITE 10GS CAT 6A S/FTP 23AWG 4PR CMX OUTDOOR - LSZH
VERIFIED TO ISO/IEC 11801-1 mmyy XXXXFT
Note 1: mmyy is date code.

Packaging

1000 FEET (305M): Reel

ELECTRICAL CHARACTERISTICS

DC Resistance Ohms/100 m (328 ft) @ 20°C	9.5
DC Resistance Unbalanced Individual Pair %	4.0
Delay Skew (Max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	73
Characteristic Impedance Frequency (f)	Ohms 100 ± 15

PHYSICAL CHARACTERISTICS

Nominal Cable Diameter (mm)	8.3
Nominal Cable Net Weight (kg/1k ft)	34.6
Minimum Bend Radius	≥ 8 times O.D.
Maximum Pulling Force	≤ 110 N
Temperature Rating (°C) Storage & shipping Installation Operation	-20°C to +60°C 0 to +60 -20 to +60

Transmission Performance (at 20°C)

Frequency (MHz)	IL (Max.)	NEXT (Min.)	PS. NEXT (Min.)	ACR (Min.)	PS. ACR (Min.)	ACRF (Min.)	PS. ACRF (Min.)	RL (Min.)	Propagation Delay (Max.)
	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	ns/100m
1	2.08	74.30	72.30	72.22	70.22	67.80	64.80	20.00	570.00
4	3.80	65.27	63.27	61.47	59.47	55.76	52.76	23.01	552.00
8	5.31	60.75	58.75	55.44	53.44	49.74	46.74	24.52	546.73
10	5.93	59.30	57.30	53.37	51.37	47.80	44.80	25.00	545.38
16	7.49	56.24	54.24	48.75	46.75	43.72	40.72	25.00	543.00
20	8.38	54.78	52.78	46.41	44.41	41.78	38.78	25.00	542.05
25	9.38	53.33	51.33	43.95	41.95	39.84	36.84	24.32	541.20
31.25	10.50	51.88	49.88	41.37	39.37	37.90	34.90	23.64	540.44
62.5	14.99	47.36	45.36	32.37	30.37	31.88	28.88	21.54	538.55
100	19.14	44.30	42.30	25.17	23.17	27.80	24.80	20.11	537.60
150	23.68	41.66	39.66	17.98	15.98	24.28	21.28	18.87	536.94
200	27.58	39.78	37.78	12.21	10.21	21.78	18.78	18.00	536.55
250	31.07	38.33	36.33	7.26	5.26	19.84	16.84	17.32	536.28
300	34.27	37.14	35.14	2.88	0.88	18.26	15.26	16.77	536.08
350	37.25	36.14	34.14	N.A.	N.A.	16.92	13.92	16.30	535.92
400	40.05	35.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535.80
450	42.71	34.50	32.50	N.A.	N.A.	14.74	11.74	15.53	535.70
500	45.26	33.82	31.82	N.A.	N.A.	13.82	10.82	15.21	535.61