

Residential Cable LSZH

0774 - Hybrid Cat6/4xBend Insensitive Fiber

0775* - Hybrid 2xCat6/4xBend Insensitive Fiber

CATALOG #0774, 0775

Meets IEC 60332-3-24 (Flame),

IEC 61034-1,2 (Smoke), & IEC 60754-1,2 (Halogen, Acidity)

Pg 1 of 3

0774



0775*



Overall Cable Dimensions

Catalog Number	Cable Design	Nominal Cable OD	Weight (lb/1000')	Nominal Cat6 OD	Nominal Fiber OD	Jacket Color
0774	Cat6 + 4 x Bend Insensitive Fiber	.390" (9.9 mm)	56 lb/kft (84 kg/km)	.250" (6.4mm)	.100" (2.5mm)	Grey
0775*	Cat6 + 4 x Bend Insensitive Fiber	.550" (13.6 mm)	83 lb/kft (124kg/km)	.250" (6.4mm)	.100" (2.5mm)	Grey

Overall Cable Mechanical Specifications

Catalog Number	Cable Design	Minimum Bend Radius (Loaded)	Minimum Bend Radius (Unloaded)	Max Pulling Tension	Installation Temp/Operating Temp
0774	Cat6 + 4 x Bend Insensitive Fiber	20 X Cable OD	10 X Cable OD	UTP – 25 lbs(11 kg), Fiber – 300 lbs(136 kg)	-20C to 60C
0775	2Cat6 + 4 x Bend Insensitive Fiber	20 X Cable OD	10 X Cable OD	UTP – 25 lbs(11 kg), Fiber – 300 lbs(136 kg)	-20C to 60C

Cable Sub-Unit Identification

White	Cat 6
Yellow	Fiber
Blue	Cat 6

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Pg 2 of 3

UTP Specifications

UTP Pair Identification:

Pair 1	Blue/White w/Co-Extruded Blue Stripe on White Single
Pair 2	Orange/White w/Co-Extruded Orange Stripe on White Single
Pair 3	Green/White w/Co-Extruded Green Stripe on White Single
Pair 4	Brown/White w/Co-Extruded Brown Stripe on White Single

UTP Electrical Performance

Frequency MHz	Attenuation (dB/100m)	Near End Cross Talk (dB)	ACR (dB/100m) Min	Power Sum NEXT Min dB	Power Sum ACR Min dB	ACRF dB/100 m	Power Sum ACRF	RL dB	TCL dB/100 m	ELTCTL dB/100 m
1	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0	40.0	35.0
4	3.8	65.3	61.5	63.3	59.5	55.7	52.7	23.0	40.0	23.0
8	5.3	60.8	55.4	58.8	53.4	49.7	46.7	24.5	40.0	16.9
10	6.0	59.3	53.4	57.3	51.4	47.8	44.8	25.0	40.0	15.0
16	7.6	56.3	48.7	54.3	46.7	43.7	40.7	25.0	38.0	10.9
20	8.5	54.8	46.3	52.8	44.3	41.7	38.7	25.0	37.0	9.0
25	9.5	53.3	43.8	51.3	41.8	39.8	36.8	24.3	36.0	7.0
31.25	10.7	51.9	41.2	49.9	39.2	37.9	34.9	23.6	35.1	
62.5	15.4	47.4	32.0	45.4	30.0	31.8	28.8	21.5	32.0	
100	19.8	44.3	24.5	42.3	22.5	27.8	24.8	20.1	30.0	
155	25.2	41.5	16.3	39.5	14.3	23.9	20.9	18.8	28.1	
200	29.0	39.8	10.8	37.8	8.8	21.7	18.7	18.0	27.0	
250	32.8	38.3	5.5	36.3	3.5	19.8	16.8	17.3	26.0	

(All tests include swept frequency measurements)

NEXT, and Power Sum values are derived from functions and truncated to the nearest whole dB

*This product is not tested to bundled and hybrid cable requirements as stated in TIA/EIA-568-C.2

Input Impedance	100 ohms $\pm$ 15 ohms 1-100 MHz 100 – 200 MHz $\pm$ 20 ohms 200 – 250 MHz $\pm$ 25 ohms
Capacitance	5.6 nF/100m nominal
DC Resistance/Unbalance	7.16 ohms/100m Max/ 2.5% Max
Dielectric Breakdown	2500 Volts DC Conductor to Conductor
Propagation Delay Skew	30ns/100m
Nominal Velocity of Propagation, NVP	69%

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Pg 3 of 3

Fiber Specifications

Physical Characteristics	
Cladding Diameter	125.0 $\pm$ 0.7 μ m
Core/Clad Offset	$\leq$ 0.5 μ m
Coating Diameter (Colored)	254 $\pm$ 7 μ m
Coating/Cladding Concentricity Error, max	12 μ m
Clad Non-Circularity	$\leq$ 1%

Mechanical Characteristics	
Proof Test	100 kpsi (.69 Gpa)
Coating Strip Force	0.3 lbf (1.3 N)
Fiber Curl	$\geq$ 4 m
Dynamic Fatigue Parameter (nd)	$\geq$ 18
Macrobending, max. (100 turns @ 50 mm mandrel)	0.01 dB 1550 nm 0.05 dB 1625 nm
Macrobending, max. (1 turn @ 30 mm mandrel)	0.02 dB @ 1550 nm

Optical Characteristics, Wavelength Specific			
	1310-nm	1385-nm	1550-nm
Max Attenuation	0.50 dB/km	0.50 dB/km	0.50 dB/km
Mode Field Diameter	8.9 $\pm$ 0.4 μ m		10.0 $\pm$ 0.5 μ m
Group Refractive Index	1.467	1.467	1.468
Dispersion, max.	3.5 ps/(nm-km) from 1285 to 1330 nm		18 ps/(nm-km)