

Cat6 Premium ProSeries

U/UTP LSZH

(EU/EMEA EuroClass: Dca)

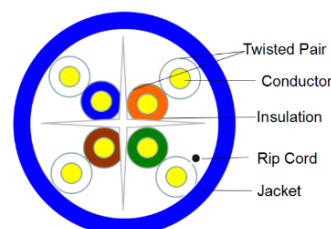
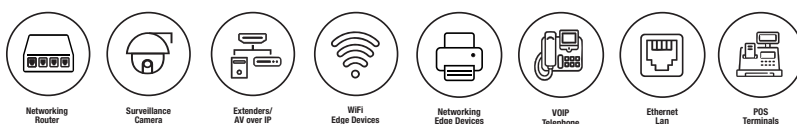
Description

Dca Rated LSZH Cat6 Enhanced 550Mhz 23+awg Solid BC, 4PR, UTP, ANSI/TIA-568.2-D, EN50173-1, ISO/IEC 11801 Class E, IEEE 802.3bt Type 3/4 PoE 60W/90W, EN50575 Dca-s2,d2,a1 - Low Smoke Zero Halogen Jacket

Key Features



Applications



Construction

Conductor	Material	Bare Copper	Shielding/Screen	Type	Unshielded
	Solid/Stranded	Solid		Material	na
	Size	23+ AWG			
	Insulation Material	HDPE		Drain Wire	None
	Insulation Thickness	0.240mm			
Pair Separator/Spline	Color Code	Per ANSI/TIA 568.2-D	Jacket/Sheath	Material	FR_LSZH
	Twisted Pair	4P/2 Cores to Pair		Nominal Jacket Thickness	0.55 +/- 0.05mm
	Insulated Conductor OD	1.05mm		Color Code	Per Request
			Overall Cable Diameter (OD)		
Pair Separator/Spline	Material	PE			
	Spline OD	4.2*4.2*0.5mm			
Rip Cord	Yes, Nylon				

Mechanical Properties

Bend Radius	Min Bend Radius (Installation)	50.4mm
	Min Bend Radius (Operation)	25.2mm
Maximum Pulling Tension	85N	
Insulation Tensile Strength	Unaged / Elongation %	16.0Mpa / 300%
Jacket/Screen Tensile Strength	Unaged / Elongation %	13.8Mpa / 100%
	Aged / Elongation %	13.8Mpa / 45%
Cable Cold Bend (-20°C for 4 hrs)	No Crack	

Environmental Parameters

Temperature Range - Operating	-20°C to 75°C (-4°F to 167°F)
Temperature Range - Installation	0°C to 40°C (32°F to 104°F)
Temperature Range - Storage	0°C to 40°C (32°F to 104°F)

Environmental Compliance

RoHS Compliant: RoHS II/III, EU/UK RoHS
REACH, WEEE Directive, WFD:2023, SCIP:2023, POPs (EU) No 2019/1021
Reellex II – Made with recyclable materials

 California Prop 65 Warning – California Residents Only
WARNING: This Product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information: www.P65Warnings.ca.gov

Rev. 052725ZH

Electrical Characteristics

Bandwidth per TIA Standard	250MHz	Capacitance Unbalance pair-to-ground	330pt/100M
Maximum Bandwidth as Tested	550MHz	Characteristic Impedance	100 +/- 15
Conductor Resistance (at 20°C)	8.0Ω/100M	Nominal Velocity of Propagation % (NVP)	66%
Dielectric Strength	Min AC1.5KV	Rated Voltage	Insulated 300V
Spark Test	2.0KV	Operating Low Voltage	80V
AC Leakage Current thru Jacket/Screen	1.5KV 50Hz 1min / 2.5KV 2s	Delay Skew	≤ 45ns / 100m
Resistance Unbalance	5%	PoE Rating	802.3bt Type 3/4 60W/90W
Insulation Resistance	≥5000MΩ-km	Transverse Conversion Loss (TCL)	1~250MHz ≥ 40.0-10x1g (f)
Mutual Capacitance	≤56nF/km		

Standards Reference

Manufactured in Accordance to: ANSI/TIA 568.2-D, ISO/IEC 11801 Class E, EN 50288-5-1, ISO/IEC 61156-5, EN 50173-1, EN 50288-6-1, EN 50575

EN50575 CPR EuroClass: Dca-s2,d2,a1

Reaction to Fire: BS EN 13501-6; EN ISO 1716; EN 50399, BS EN 60332-1-2; BS EN 61034-2; BS EN 60754-1&2;

Power Over Ethernet (PoE): IEEE 802.3bt Type 3/4 60W/90W

Power Over HDBaseT (PoH): HDBaseT Recognized

3rd Party Certification: ETL Verified

Cable Jacket Markings

Structured Cable Products --- CAT6-PREM-LS-XX --- Cat6 Premium LSZH - 550MHz U/UTP ANSI/TIA 568.2-D ISO/IEC 11801 Class E ETL Verified CMR FT4 75°C 4PR 23+AWG SOL BC EN50575 Dca-s2,d2,a1 LSZH JKT CE RoHS ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 *** Feet (or Meters) MM/YYYY

Above jacket markings are an example for reference purposes. All SCP jacket markings include descending feet or meter markings and our industry leading zone and outlet legend for easy cable identification during installation.

Performance Data*

Bandwidth MHz	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		ACR Min (dB)		RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP
1	2.03	1.73	74.3	89	72.3	86.18	72.3	78.4	20	26.36	67.8	75.6	64.8	73.3	70.3	74.7
4	3.78	3.5	65.27	77.65	63.27	75.21	61.5	71.9	23.01	32.34	55.8	61.3	52.8	60.1	59.5	70.5
8	5.32	5	60.75	73.82	58.75	70.97	55.5	60.9	24.52	36.28	49.7	55.7	46.7	54.8	53.5	60
10	5.95	5.61	59.3	77.24	57.3	74.8	53.3	61.8	25	36.23	47.8	55.2	44.8	53.2	51.3	60.1
16	7.55	7.16	56.24	75.11	54.24	71.52	48.6	63.4	25	36.98	43.7	49.7	40.7	48.1	46.6	59.8
20	8.47	8.04	54.78	69.67	52.78	68.13	46.3	63.7	25	37.96	41.8	48.1	38.8	46.2	44.3	60.9
25	9.51	9.02	53.33	67.04	51.33	64.13	43.8	53.2	24.32	33.59	39.8	45.9	36.8	45	41.8	51.7
100	19.8	18.58	44.3	58.71	42.3	57.31	24.5	41.2	20.11	31.85	27.8	35	24.8	33.2	22.5	39.2
200	28.98	27.01	39.78	53.59	37.78	51.66	10.8	30.1	18	27.42	21.8	32.8	18.8	30.2	8.8	28.6
250	32.85	30.51	38.33	54.10	36.33	51.78	5.5	26.4	17.32	25.20	19.8	30.7	16.8	27.7	3.5	24.7
300	36.4	33.3	37.1	54.2	35.1	53.4	0.7	20.9	16.8	20.8	18.3	26.5	15.3	25.4	---	---
400	43	38.6	35.3	53.8	33.3	52.1	---	---	15.9	18.9	15.8	23.4	12.8	22.1	---	---
500	48.9	43.9	33.8	51	31.8	49.3	---	---	15.2	18.6	13.8	19.5	10.8	18.7	---	---
550	51.76	49.11	33.19	49.5	31.2	47.8	---	---	14.92	18.7	12.8	17.6	9.8	17	---	---

*SCP Cat6 Premium Cables exceed industry transmission requirements at 20°C as per ANSI/TIA 568 and IEC 61156-5 Ed 2.

Part Numbers

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weigth	Item Dimensions (mm)
North America:						
Not available at this time						
EU (EMEA):						
CAT6-PREM-LS-BK	810093725984	Black	1000ft/305m	Premium Reelex II Box	31.9/14.5	400*290*400
CAT6-PREM-LS-BL	810093725991	Green	1000ft/305m	Premium Reelex II Box	31.9/14.5	400*290*400
CAT6-PREM-LS-OR	810093726004	Orange	1000ft/305m	Premium Reelex II Box	31.9/14.5	400*290*400
CAT6-PREM-LS-RD	810093726011	Red	1000ft/305m	Premium Reelex II Box	31.9/14.5	400*290*400