

Cat6 Prem ProSeries

U/UTP PVC Indoor/Outdoor Rated

(EU/EMEA EuroClass: Dca)

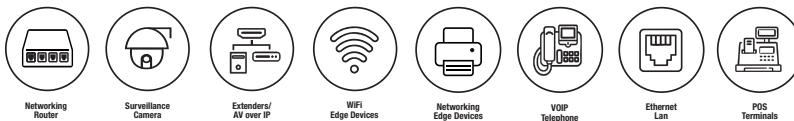
Description

Cat6 Premium ProSeries Indoor/Outdoor - Enhanced 550MHz 23+ awg Solid BC, 4PR, UTP, ANSI/TIA 568-2.D, ISO/IEC 11801 Class E, IEEE 802.3bt Type 3/4 60W/90W, UL CMR, ETL CMR-LP(0.5A), EN50575 Dca-s3,d2,a3 UV Sun Res PVC Jkt Blue - 1000ft/305m Prem Box

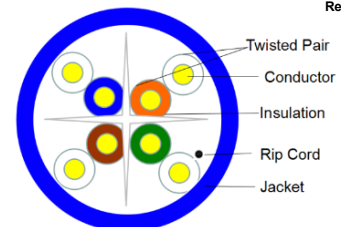
Key Features



Applications



HDBT
Recommended



Construction

Conductor	Material	Bare Copper	Shielding/Screen	Type	Unshielded
	Solid/Stranded	Solid		Material	na
	Size	23+ AWG	Drain Wire	None	
	Insulation Material	HDPE			
	Insulation Thickness	0.240mm	Jacket/Sheath	Material	PVC - UV Sun Res
	Color Code	Per ANSI/TIA 568.2-D		Nominal Jacket Thickness	0.6 +/-0.1mm
	Twisted Pair	4P/2 Cores to Pair		Color Code	Per Request
Insulated Conductor OD	1.05 +/- 0.005mm				
Pair Separator/ Spline	Material	HDPE	Overall Cable Diameter (OD)	6.2 +/-0.30mm	
	Spline OD	4.2*4.2*0.5mm			
Rip Cord	Yes, Nylon				

Mechanical Properties

Bend Radius	Min Bend Radius (Installation)	49.6mm
	Min Bend Radius (Operation)	24.8mm
Maximum Pulling Tension	85N	
Insulation Tensile Strength	Unaged / Elongation %	16.0Mpa / 300%
	Aged / Elongation %	13.8Mpa / 45%
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
Reelx 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	≥500MΩ·km	Transverse Conversion Loss (TCL)	1~250MHz ≥ 40.0-10x1g (f)
Mutual Capacitance	≤56nF/km		

Standards Reference

Manufactured in Accordance to: UL 444, UL 13, 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-s3,d2,a3

Reaction to Fire: BS EN 13501-6; UL Riser Rated

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

Power Over HDBaseT (PoH): Yes

3rd Party Certification: UL CMR cUL FT4

California Prop 65: PVC-Coated products; PVC-coated wires and cables. Warning: This product can expose you to chemicals including DINP and/or DEHP, which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov and/or our information page: California Proposition 65.

Cable Jacket Markings

STRUCTURED CABLE PRODUCTS --- CAT6-PREM --- CAT6 PREMIUM PROSERIES U/UTP INDOOR/OUTDOOR --- ENHANCED 550MHz ANSI/TIA-568.2-D & ISO/IEC 11801 CLASS E----- E198134 SCP3 (UL) C(UL) CMR FT4 75C 4PR 23AWG SOL BC U/UTP--- EN50575 Dca-s3,d2,a3 --- ETL CMR-LP(0.5A) IEEE802.3bt PoE TYPE 3-4 60W/90W UV SUN RES PVC JKT EU ROHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ***M DDDMMY

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 Weight (lb/kg)	Item Dimensions (mm)
North America:						
CAT6-PREM-BK	810093725823	Black	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-BL	810093725830	Blue	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-GN	810093725847	Green	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-GY	810093725854	Gray	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-OR	810093725861	Orange	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-PUR	810093725878	Purple	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-RD	810093725885	Red	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-WT	810093725892	White	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-YL	810093725908	Yellow	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
EU (EMEA):						
CAT6-PREM-BK-D	810093725915	Black	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-BL-D	810093725922	Blue	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-GN-D	810093725946	Green	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-GY-D	810093725939	Gray	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-RD-D	810093725953	Red	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-VL-D	810093725960	Violet	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
CAT6-PREM-YL-D	810093725977	Yellow	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
HNCPROPLUS-BK-D	817777015379	Black	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
HNCPROPLUS-BL-D	817777015263	Blue	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
HNCPROPLUS-GN-D	817777015386	Green	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
HNCPROPLUS-OR-D	817777015393	Orange	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
HNCPROPLUS-RD-D	817777015409	Red	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
HNCPROPLUS-WT-D	817777015508	White	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390
HNCPROPLUS-YL-D	817777015461	Yellow	1000ft/305m	Premium Reelex II Box	31.46/14.3	410*280*390

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