

Cat6 Installer Series

U/UTP PVC ETL Riser Rated

(EU/EMEA EuroClass: Dca)

Key Features

- 500MHz Enhanced Bandwidth Performance
 - 23 AWG Copper Conductors
 - PoE Rated Type 2 (15W/30W)
 - ETL c(ETL) Riser Rated CMR FT4
 - EuroClass: Dca-s3,d2,a3
 - Reellex II Tangle-Free Box
 - Strong, Lightweight, Resilient*
 - Industry Leading Zone and Outlet Legend
 - Limited Lifetime Warranty**
- *Damaged boxes still dispense perfectly*
***Details at www.scp5e.com/warranties*

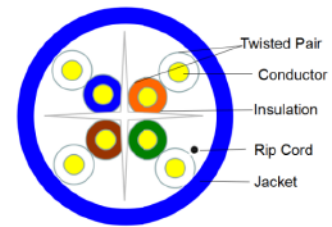


Description

Cat6 Installer Series - Enhanced 500 MHz 23AWG Solid BC, 4PR, UTP, ANSI/TIA 568.2-D, ISO/IEC 11801 Class E, IEEE 802.3at Type 2, ETL CMR, EN50575 Dca-s3,d2,a3 PVC Jkt - 1000ft/305m Box

Applications

Supports all Category 6 and Class E applications including structured cabling for horizontal and building backbone, Ethernet 10/100/1000/10GBASE-T, indoor use, fixed installations, Power Over Ethernet (PoE), and other high bandwidth applications.



Construction

Conductor	Material Solid/Stranded Size Insulation Material Insulation OD Color Code Twisted Pair Insulated Conductor OD	Bare Copper Solid 23 AWG HDPE 0.220mm Per ANSI/TIA 568.2-D 4P/2 Cores to Pair 1.01+/-0.5mm	Shielding/Screen	Type Material	Unshielded na
			Drain Wire	None	
			Jacket/Sheath	Material Nominal Jacket Thickness Color Code	PVC 0.52 +/- 0.05mm Per Request
Pair Separator/ Splines	Material Splines OD	CMR Rated 4.2*4.2*0.5mm	Overall Cable Diameter (OD)	6.0 +/-0.10mm	
Rip Cord	Yes, Nylon				

Mechanical Properties

Bend Radius	Min Bend Radius (Installation) Min Bend Radius (Operation)	48mm 24mm
Maximum Pulling Tension	85N	
Insulation Tensile Strength	Unaged / Elongation % Aged / Elongation %	13.8Mpa / 100% 9.8Mpa / 100%
Jacket/Screen Tensile Strength	Unaged / Elongation % Aged / Elongation %	13.8Mpa / 100% 11.7Mpa / 50%
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. 0425ZH

Electrical Characteristics

Bandwidth per TIA Standard	250MHz	Capacitance Unbalance pair-to-ground	160 pf/100m
Maximum Bandwidth as Tested	500MHz	Characteristic Impedance	100 +/- 15 Ohm
Conductor Resistance (at 20°C)	Max 72.2ohm/km	Nominal Velocity of Propagation % (NVP)	66%
Dielectric Strength	Min AC 1.5KV	Rated Voltage	Insulated 300V
Spark Test	5.0KV		Operating Low Voltage 80V
AC Leakage Current thru Jacket/Screen	1.5KV 50Hz 1min / 2.5KV 2s	Delay Skew	Max 45ns / 100m
Resistance Unbalance	Max 5%	PoE Rating	802.3at Type 2 15W/30W
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, 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; ETL Riser Rated

Power Over Ethernet (PoE): IEEE 802.3at Type 2 (15W/30W)

Power Over HDBaseT (PoH): Yes

3rd Party Certification: ETL Verified CMR FT4

Cable Jacket Markings

Structured Cable Products --- CAT6-ETL-XX-D --- Cat6 Installer Series - ENHANCED 500MHz ANSI/TIA 568.2-D ETL LISTED 5002121(ETL)C(ETL) CMR 75C 23AW SOL BC 4PR UTP---EN50575:2014 CE Dca-s3,d2,a3 IEEE802.3at TYPE 2 PVC JKT FT4 75C EU RoHS EC ZONE/DEVICE A B C D E O 1 2 3 4 5 6 7 8 9 ***M

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	63.2	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	---	---

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

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Part Numbers

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weight	Item Dimensions (mm)
North America:						
Not available at this time						
EU (EMEA):						
CAT6-BL-ETL-D	810093724666	Blue	1000ft/305m	Reelex II Box	29.48/13.4	410*280*390
CAT6-BK-ETL-D	810093724659	Black	1000ft/305m	Reelex II Box	29.48/13.4	410*280*390
CAT6-GY-ETL-D	810093724673	Gray	1000ft/305m	Reelex II Box	29.48/13.4	410*280*390
CAT6-WT-ETL-D	810093724680	White	1000ft/305m	Reelex II Box	29.48/13.4	410*280*390