

Cat6a Premium Pro Series

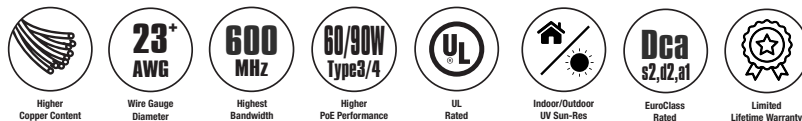
U/UTP PVC Indoor/Outdoor Rated

(EU/EMEA EuroClass: Dca)

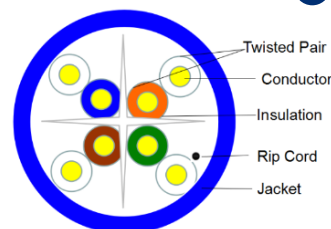
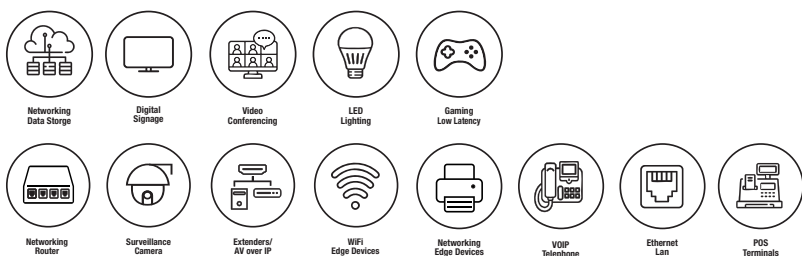
Description

Cat6a Premium Indoor/Outdoor - Enhanced 600MHz 23+ AWG Solid BC, 4PR, U/UTP, Pair Separator, Class Ea, UL CMR FT4, PoE Type 3/4 60W/90W, CPR EuroClass: Dca-s3,d2,a3 PVC Jacket, Reel in Box

Key Features



Applications



Construction

Conductor	Material Solid/Stranded Size Insulation Material Insulation Thickness Color Code Twisted Pair Insulated Conductor OD	Bare Copper Solid 23+ AWG HDPE 0.240mm(0.009 in) Per ANSI/TIA 568.2-D 4P/2 Cores to Pair 1.05mm (0.041in)	Shielding/Screen	Type Material	Unshielded na
			Drain Wire	None	
			Jacket/Sheath	Material Nominal Jacket Thickness Color Code	PVC 0.8mm (0.031 in) Per Request
Pair Separator/ Spline	Material Spline OD	FRPE 5.2mm (0.204 in)	Overall Cable Diameter (OD)	7.2mm (0.283 in)	
Rip Cord	Yes, Nylon				

Mechanical Properties

Bend Radius	Min Bend Radius (Installation) Min Bend Radius (Operation)	8x Outer Diameter 4x Outer Diameter
Maximum Pulling Tension		
Insulation Tensile Strength	Unaged / Elongation %	12.3Mpa / 150% 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
Reel in Box – 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

Electrical Characteristics

Bandwidth per TIA Standard	500MHz	Capacitance Unbalance pair-to-ground	Max 3300 pf/km
Maximum Bandwidth as Tested	600MHz	Characteristic Impedance	100 +/- 15 Ohm
Conductor Resistance (at 20°C)	Max 93.8 Ohm/km	Nominal Velocity of Propagation % (NVP)	67-69
Dielectric Strength	Min AC1.5KV	Rated Voltage	Insulated 300V
Spark Test	2.5KV		Operating Low Voltage 80V
AC Leakage Current thru Jacket/Screen	na	Delay Skew	Max 45ns / 100m
Resistance Unbalance	Max 5%	PoE Rating	802.3bt Type 3/4 60W/90W
Insulation Resistance	Max 93.8 Ohm/km	Transverse Conversion Loss (TCL)	30 – 10log(f /100) @1-500MHz
Mutual Capacitance	5600pF/100m		

Standards Reference

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

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 c(UL) CMR FT4

Cable Jacket Markings

Structured Cable Products --- CAT6A-PREM --- Cat6a Premium Series Indoor/Outdoor Enhanced 600 MHz U/UTP 4PR 23+ AWG SOL BC 75°C UL CMR FT4 ANSI/TIA 568.2-D ISO/IEC 11801 Class Ea HDBaseT Enhanced EN50575 Dca-s3,d2,a3 UV Sun Res PVC JKT CE UKCA 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	2.1	1.9	74.3	80.3	72.3	76.6	72.3	78.4	20	23.6	67.8	75.6	64.8	73.3	70.3	74.7
4	3.8	3.7	65.3	75.6	63.3	74.2	61.5	71.9	23	23.9	55.8	61.3	52.8	60.1	59.5	70.5
8	5.3	5.1	60.8	66	58.8	65.1	55.5	60.9	24.5	30	49.7	55.7	46.7	54.8	53.5	60
10	5.9	5.8	59.3	67.6	57.3	65.9	53.3	61.8	25	28.5	47.8	55.2	44.8	53.2	51.3	60.1
16	7.5	7.4	56.2	70.8	54.2	67.2	48.6	63.4	25	28.2	43.7	49.7	40.7	48.1	46.6	59.8
20	8.4	8.2	54.8	71.9	52.8	69.1	46.3	63.7	25	27.8	41.8	48.1	38.8	46.2	44.3	60.9
25	9.4	9.1	53.3	62.3	51.3	60.8	43.8	53.2	24.3	27.5	39.8	45.9	36.8	45	41.8	51.7
100	19.1	18.8	44.3	60	42.3	58	24.5	41.2	20.1	23.5	27.8	35	24.8	33.2	22.5	39.2
200	27.6	27.4	39.8	57.5	37.8	56	10.8	30.1	18	23.2	21.8	32.8	18.8	30.2	8.8	28.6
250	31.1	29.4	38.3	55.8	36.3	54.1	5.5	26.4	17.3	21.5	19.8	30.7	16.8	27.7	3.5	24.7
300	34.3	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	45.3	43.9	33.8	51	31.8	49.3	---	---	15.2	18.6	13.8	19.5	10.8	18.7	---	---
600	50.1	48.2	32.6	45.5	30.6	43.6	---	---	14.7	17.3	12.2	18.5	9.2	16.6	---	---

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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):						
CAT6A-PREM-BK-D	810093726547	Blue	1000ft/305m	Reel in Box	17.4kg/38.36lb	383x323x435