

P/N: SC-PS1600

Cat6 U/UTP PVC

Indoor/Outdoor Rated, UL Riser



Higher Cooper Content



Highest Bandwidth



Higher PoE Performance



Reellex II No Tangle Box



UL Rated



Indoor/Outdoor UV Sun-Res



25 Year Certified System Warranty



Limited Lifetime Warranty

Key Features

- 550MHz Class E Bandwidth Performance
- Larger 23+ AWG Bare Copper
- Higher PoE Performance Type 3/4 60W/90W
- UL Riser Rated CMR FT4
- 20 Free Connectors inside every box
- Limited Lifetime Warranty**
- UV Protected for Seamless Indoor/Outdoor Installs
- Premium Reellex II Tangle-Free Box
- Strong, Lightweight, Resilient*
- Color Coded to Visually Reinforce Category Cable Type
- Recyclable & Reusable
- Up to 39% Less Waste Volume
- Industry Leading Zone and Outlet Legend

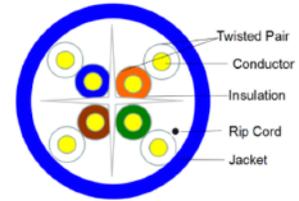
**Details at www.simplybrands.com/warranties

*Damaged boxes still dispense perfectly



Description

SimplyCable Pro Series Cat6 - 550Mhz 23+awg Solid BC, 4PR, UTP, ANSI/TIA-568.2-D, ISO/IEC 11801 Class E, IEEE 802.3bt Type 3/4 PoE 60W/90W, UL CMR FT4, EN50575 Dca-s3,d2,a3 PVC Jacket



Construction

Conductor	Material Solid/Stranded Size Insulation Material Insulation OD Color Code Twisted Pair Insulated Conductor OD	Bare Copper Solid 23 AWG HDPE 1.03 +/- 0.01mm Per ANSI/TIA 568.2-D 4P/2 Cores to Pair 1/0.57 +/- 0.005mm	Shielding/Screen	Type Material	Unshielded na
Pair Separator/Spline	Material Spline OD	CMR Rated 4.2*4.2*0.5mm	Drain Wire	None	
Rip Cord	Yes, Nylon		Jacket/Sheath	Material Nominal Jacket Thickness Color Code	PVC - UV Sun Res 0.6 +/- 0.1mm Per Request
			Overall Cable Diameter (OD)	6.2 +/- 0.10mm	

Mechanical Properties

Bend Radius	Min Bend Radius (Installation) Min Bend Radius (Operation)	49.6mm 24.8mm
Maximum Pulling Tension		85N
Insulation Tensile Strength	Unaged / Elongation %	16.0Mpa / 300%
Jacket/Screen Tensile Strength	Unaged / Elongation % Aged / Elongation %	13.8Mpa / 100% 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

Electrical Characteristics

Bandwidth per TIA Standard	250MHz	Capacitance Unbalance pair-to-ground	330pf/100M
Maximum Bandwidth as Tested	500MHz	Characteristic Impedance	100 +/- 15
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	≤ 45ns / 100m
Resistance Unbalance	Max 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: 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

SIMPLY CABLE --- SC-BC1600BK --- CAT6 UTP PROSERIES - ENHANCED 550MHZ ANSI/TIA 568.2-D & ISO/IEC 11801 CLASS E----- STRUCTURED CABLE PRODUCTS E198134 SCP6 (UL) C(UL) CMR 4PR 23AWG SOL BC -----ETL CMR -LP(0.5A) --- IEEE802.3bt TYPE 3-4 60W/90W PVC JKT FT4 75C EU RoHS EC ZONE/DEVICE A B C D E O 1 2 3 4 5 6 7 8 9 ***FEET DDMYY

Above jacket markings are an example for reference purposes. All SimplyCable 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	1.9	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	6	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	7.6	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	8.5	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	9.5	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
31.25	10.7	9.9	51.9	68.7	49.9	67.1	41.2	58.8	23.6	24.9	37.9	42.7	34.9	41.7	39.2	57.2
62.5	15.4	15	47.4	59.6	45.4	58.3	32	44.6	21.5	24.1	31.9	39.4	28.9	37.4	30	43.3
100	19.8	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	29	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	32.8	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	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	---	---

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

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. HDBaseT Recognized.



Part Numbers

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weight (kg/lb)	Item Dimensions (mm)
North America:						
SC-BC1600BL	810093726882	Blue	1000ft/305m	Premium Reelex II Box	31.526/14.3	410*280*390
SC-BC1600BK	810093726899	Black	1000ft/305m	Premium Reelex II Box	31.526/14.3	410*280*390
SC-BC1600WT	810093726905	White	1000ft/305m	Premium Reelex II Box	31.526/14.3	410*280*390
EU (EMEA):						
Not available at this time						

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