P/N: SC-BC2600

Cat6 U/UTP PVC
Indoor Rated, ETL Riser

Enhanced Bandwidth | **PoE Rated** | **Reelex II No Tangle Box** | **ETL Rated** | **Limited Lifetime Warranty**

Key Features

- 500MHz Enhanced Bandwidth Performance
- 23 AWG Copper Conductors
- PoE Rated Type 2/3 (30W/60W)
- ETL c(ETL) Riser Rated CMR FT4
- 20 Free Connectors inside every box
- Limited Lifetime Warranty*
  *Details at www.simplybrands.com/warranties

- Reelex II Tangle-Free Box
- Strong, Lightweight, Resilient**
- Color Coded to Visually Reinforce Category Cable Type
- Recyclable & Reusable
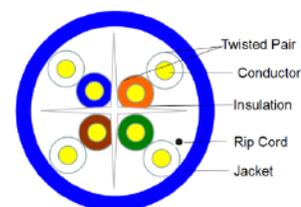- Up to 39% Less Waste Volume
- Industry Leading Zone and Outlet Legend
  **Damaged boxes still dispense perfectly

Twisted Pair
Conductor
Insulation
Rip Cord
Jacket

Description

SimplyCable Installer Series Cat6 - 500Mhz 23AWG Solid BC, 4PR, U/UTP, Pair Separator, Class E, PoE Type 2 15W/30W, ETL CMR FT4, PVC Jacket

Construction

Conductor		
	Material	Bare Copper
	Solid/Stranded	Solid
	Size	23 AWG
	Insulation Material	HDPE
	Insulation OD	0.220mm
	Color Code	Per ANSI/TIA 568.2-D
	Twisted Pair	4P/2 Cores to Pair
	Insulated Conductor OD	1/0.552+/-0.005mm

Pair Separator/Spline		
	Material	CMR Rated
	Spline OD	4.2*4.2*0.5mm

Rip Cord	Yes, Nylon

Shielding/Screen		
	Type	Unshielded
	Material	na

Drain Wire	None

Jacket/Sheath		
	Material	PVC
	Nominal Jacket Thickness	0.46 +/- 0.06mm
	Color Code	Per Request

Overall Cable Diameter (OD)	6.0 +/-0.10mm

Mechanical Properties

Bend Radius	Min Bend Radius (Installation)	48mm
	Min Bend Radius (Operation)	24mm

Maximum Pulling Tension	85N	

Insulation Tensile Strength	Unaged / Elongation %	13.8Mpa / 100%
	Aged / Elongation %	9.8Mpa / 100%

Jacket/Screen Tensile Strength	Unaged / Elongation %	13.8Mpa / 100%
	Aged / Elongation %	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
Reelex 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**	Max 3300pF/km
Maximum Bandwidth as Tested	500MHz	**Characteristic Impedance**	100 +/- 15 Ohm
Conductor Resistance (at 20°C)	Max 72.2ohm/km	**Nominal Velocity of Propagation % (NVP)**	67-69%
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 2/3 (30W/60W)

Power Over HDBaseT (PoH): Yes

3rd Party Certification: ETL Verified CMR FT4

Cable Jacket Markings

SimplyCable--- SC-BC2600XX --- Cat6 Installer Series - 500MHz U/UTP ANSI/TIA 568.2-D ISO/IEC 11801 Class E ETL Verified CMR FT4 75°C   4PR 23 AWG SOL BC   PVC 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 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.

Networking Edge Devices | VOIP Telephone | Ethernet Lan | Networking Router | Surveillance Camera | Extenders/AV over IP | WiFi Edge Devices

Part Numbers

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weigth (kg/lb)	Item Dimensions (mm)
North America:						
SC-BC2600BL	810093726912	Black	1000ft/305m	Reelex II Box	28/14	410*280*390
SC-BC2600BK	810093726929	Blue	1000ft/305m	Reelex II Box	28/14	410*280*390
SC-BC2600WT	810093726936	White	1000ft/305m	Reelex II Box	28/14	410*280*390
EU (EMEA):						
Not available at this time						