

# CATEGORY 6

High Performance Networking Cable

# SimplyCABLE™

PRO SERIES

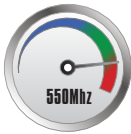
P/N: SC-BC3600XX

## Cat6 UTP Indoor/Outdoor Rated, UL

Cat6 Pro Series Indoor/Outdoor HDBaseT 550MHz 23awg Solid BC, 4PR, UTP, ANSI/TIA 568-2.D, ISO/IEC 11801 Class E, IEEE 802.3bt Type 4 PoE 90W, UL CMR/FT4, EN50575 Dca-s3,d2,a3, UV Sun Res PVC Jkt – 1000ft/305m Box



Higher Cooper Count



Maximum Performance



Indoor/Outdoor Rated



UL Rated



Higher PoE Performance



Crush Resistant Box



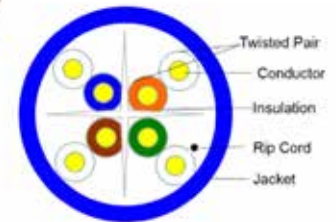
25 Year Certified System Warranty



Limited Lifetime Warranty

### Construction

Cable Construction	U/UTP
Jacket Material/Rating	PVC-UV
Fire Safety Rating	CMR FT4
3rd Party Rated	UL c(UL)
Installation Type	Indoor/Outdoor UV Sun Res
Enhanced Tested Bandwidth	550 MHz
ISO/IEC 11801 Class Type	Class E
Transmission Standards	1G/10G
PoE Rating (IEEE 802.3af,at,bt)	60W/90W Type 3-4
Wire Conductors	Solid BC
Wire AWG	23+ AWG
Conductor Insulation	HDPE
Pair Separator/Spline	Yes
Cable Overall Diameter (OD)	6.3mm (0.248 in)
Insulated Conductor OD	1.05mm (0.041in)
Packaging Type	Premium Reelex II Box
Packaged Length (ft/m)	1000ft/305m
20 Free Connectors	S45-1620P



### Key Features

- 550MHz Class E Bandwidth Performance
  - PoE Rated Type 3/4 60W/90W
  - 3rd Party UL Verified
  - Riser Rated - UL CMR FT4 / ETL CMR-LP
  - 20 Free Connectors inside every box
  - HDBase™ Recognized
  - Limited Power Certified
  - Available in 9 colors:
    - BK=Black
    - BL=Blue
    - OR=Orange
    - PUR=Purple
    - WT=White
    - GY=Gray
    - GN=Green
    - RD=Red
    - YL=Yellow
  - Premium Reelex II Tangle-Free Box
  - Reinforced handles for improved performance
  - UV Protected for Seamless Indoor/Outdoor Installs
  - Strong, Lightweight, Resilient
  - Color Coded to Visually Reinforce Category Cable Type
  - Limited Lifetime Warranty\*
- \*Details at [www.simplybrands.com/warranties](http://www.simplybrands.com/warranties)

### Mechanical Properties

<b>Bend Radius</b>	Min Bend Radius (Installation)	49.6mm
	Min Bend Radius (Operation)	24.8mm
<b>Maximum Pulling Tension</b>	85N	
<b>Insulation Tensile Strength</b>	Unaged / Elongation %	16.0Mpa / 300%
	Aged / Elongation %	13.8Mpa / 100%
<b>Jacket/Screen Tensile Strength</b>	Unaged / Elongation %	13.8Mpa / 100%
	Aged / Elongation %	13.8Mpa / 45%
<b>Cable Cold Bend (-20°C for 4 hrs)</b>	No Crack	

### Environmental Parameters

<b>Temperature Range - Operating</b>	-20°C to 75°C (-4°F to 167°F)
<b>Temperature Range - Installation</b>	0°C to 40°C (32°F to 104°F)
<b>Temperature Range - Storage</b>	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](http://www.P65Warnings.ca.gov)

# CATEGORY 6

High Performance Networking Cable

**SimplyCABLE™**  
PRO SERIES

## Electrical Characteristics

<b>Bandwidth per TIA Standard</b>	250MHz	<b>Capacitance Unbalance pair-to-ground</b>	330pf/100M
<b>Maximum Bandwidth as Tested</b>	500MHz	<b>Characteristic Impedance</b>	100 +/- 15
<b>Conductor Resistance (at 20°C)</b>	Max 72.2ohm/km	<b>Nominal Velocity of Propagation % (NVP)</b>	66%
<b>Dielectric Strength</b>	Min AC 1.5KV	<b>Rated Voltage</b>	Insulated 300V
<b>Spark Test</b>	5.0KV		Operating Low Voltage 80V
<b>AC Leakage Current thru Jacket/Screen</b>	1.5KV 50Hz 1min / 2.5KV 2s	<b>Delay Skew</b>	≤ 45ns / 100m
<b>Resistance Unbalance</b>	Max 5%	<b>PoE Rating</b>	802.3bt Type 3/4 60W/90W
<b>Insulation Resistance</b>	≥5000MΩ·km	<b>Transverse Conversion Loss (TCL)</b>	1~250MHz ≥ 40.0-10x1g (f)
<b>Mutual Capacitance</b>	≤56nF/km		

## Standards Reference

**Manufactured in Accordance to:** 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

## Cable Jacket Markings

SIMPLY CABLE --- SC-BC3600 --- 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 0 1 2 3 4 5 6 7 8 9 \*\*\*FEET DDDMMYY

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 Pro Series Cables exceed industry transmission requirements at 20°C as per ANSI/TIA 568 and IEC 61156-5 Ed 2.

# CATEGORY 6

High Performance Networking Cable

**SimplyCABLE™**  
PRO SERIES

## 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-BC3600BL	810093728541	Blue	1000ft/305m	Premium Reelex II Box	31.526/14.3	410*280*390
SC-BC3600BK	810093728534	Black	1000ft/305m	Premium Reelex II Box	31.526/14.3	410*280*390
SC-BC3600WT	810093728558	White	1000ft/305m	Premium Reelex II Box	31.526/14.3	410*280*390

### EU (EMEA):

Not available at this time

## Recommended Products



S45-1600P



S45-1601P



S45-1605P



S45-3600B/W



S45-3690B/BL/W



S45-1710S



S45-S02R



S45-C101



S45-P300



S45-P420



S45-2624



S45-2648



S45-2024U

SimplyCable has made every reasonable effort to ensure the accuracy of the information in this document. SimplyCable reserves the right to modify or change information herein at any time without notice due error correction, specification changes, ongoing technical developments, and/or any reason. SimplyCable disclaims all representations or warranties, whether express, statutory or implied regarding the information contained herein. Under no circumstance will SimplyCable be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever. Dimensions and weights are for reference purposes only and are subject to change. Regulatory information is for guidance purposes only. All warranty information can be viewed at [www.simplybrands.com](http://www.simplybrands.com) © 2025 SimplyCable. All rights reserved.