SimplyCABLE™ STANDARD SERIES
Powered by SCP

Cat6 Standard Series Datasheet

PART #: SC-BC1600XXD

Cat6 UTP
Dca EuroClass, Indoor Rated, ETL

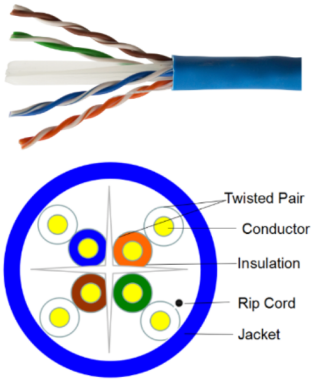
Cat6 Standard Series - 550MHz 23AWG Solid BC 4PR, UTP, ETL CMR, ANSI/TIA-568.2-D, IEEE 802.3at PoE 30W (Type 2), RoHS, EN50575 Dca-s3,d2,a3 PVC Jkt - 1000ft/305m Box

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

Construction

Cable Construction	UTP
Jacket Material/Rating	PVC
Fire Safety Rating	CMR FT4
EuroClass	Dca-s3,d2,a3
Installation Type	Indoor
Enhanced Tested Bandwidth	550 MHz
ISO/IEC 11801 Class Type	Class E
Transmission Standards	1G
PoE Rating (IEEE 802.3af,at,bt)	15W/30W Type 2
Wire Conductors	Solid BC
Wire AWG	23 AWG
Conductor Insulation	HDPE
Pair Separator/Spline	HDPE
Cable Overall Diameter (OD)	5.9-6.0mm
Insulated Conductor OD	0.96-1.02mm
Packaging Type	Reelex II Pullbox
Packaged Length (ft/m)	1000ft/30





Key Features

- 550MHz Class E Bandwidth Performance
- PoE Rated Type 2 30W
- 3rd Party ETL Verified
- ETL c(ETL) Riser Rated CMR FT4
- SC-BC1600XXD is available in 9 colors:
- Reelex II Tangle-Free Box
- Reinforced handles for improved performance
- Strong, Lightweight, Resilient
- Limited Lifetime Warranty

Details at www.simplybrands.com/warranties

BK=Black, BL=Blue, OR=Orange, PUR=Purple, WT=White
GY=Gray, GN=Green, RD=Red, YL=Yellow

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
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

Cable Jacket Markings

SIMPLYCABLE - STRUCTURED CABLE PRODUCTS --- SC-BC1600---- CAT6 UTP STANDARD SERIES --- SWEPT TO 550MHz ETL LISTED 5002121 (ETL) C(ETL) EN50575:2014 CE Dca-s3,d2,a3 CMR FT4 75C 23AWG SOL BC 4PR UTP ANSI/TIA 568.2-E PVC JKT RoHS ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ***M POXXXX

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.

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Electrical Characteristics

Maximum Bandwidth as Tested	550MHz	**Capacitance Unbalance pair-to-ground**	Max 3300pF/km
Conductor Resistance (at 20°C)	Max 93.8.ohm/km	**Characteristic Impedance**	100 +/- 15 Ohm
Dielectric Strength	Min AC 1.5KV	**Nominal Velocity of Propagation % (NVP)**	67-69%
Spark Test	5.0KV	**Rated Voltage**	Insulated 300V
AC Leakage Current thru Jacket/Screen	1.5KV 50Hz 1min / 2.5KV 2s		Operating Low Voltage 80V
Resistance Unbalance	Max 5%	**Delay Skew**	Max 45ns / 100m
Insulation Resistance	≥5000MΩ·km	**PoE Rating**	802.3at Type 2 15W/30W
Mutual Capacitance	≤56nF/km	**Transverse Conversion Loss (TCL)**	1~250MHz ≥ 40.0-10x1g (f)

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; CMR Riser Rated

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

Power Over HDBaseT (PoH): Yes

3rd Party Certification: ETL Verified 5015458 CMR FT4

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
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
500	48.9	43.9	33.8	51	31.8	49.3	-	-	15.2	18.6	13.8	19.5	10.8	18.7	-	-
550	51.76	46.76	33.19	48.2	31.19	46.5	-	-	14.92	18.32	12.99	18.69	9.99	17.89	-	-

Part Numbers

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weigth (kg/lb)	Item Dimensions (mm)
North America:						
Not available at this time						
EU (EMEA):						
SC-BC1600BLD	810093729760	Black	1000ft/305m	Reelex II Box	28/12.7	410*280*390
SC-BC1600BKD		Blue	1000ft/305m	Reelex II Box	28/12.7	410*280*390
SC-BC1600GND		Green	1000ft/305m	Reelex II Box	28/12.7	410*280*390
SC-BC1600GYD		Gray	1000ft/305m	Reelex II Box	28/12.7	410*280*390
SC-BC1600ORD		Orange	1000ft/305m	Reelex II Box	28/12.7	410*280*390
SC-BC1600PURD		Purple	1000ft/305m	Reelex II Box	28/12.7	410*280*390
SC-BC1600RDD		Red	1000ft/305m	Reelex II Box	28/12.7	410*280*390
SC-BC1600YLD	810093729784	Yellow	1000ft/305m	Reelex II Box	28/12.7	410*280*390
SC-BC1600WTD	810093729777	White	1000ft/305m	Reelex II Box	28/12.7	410*280*390

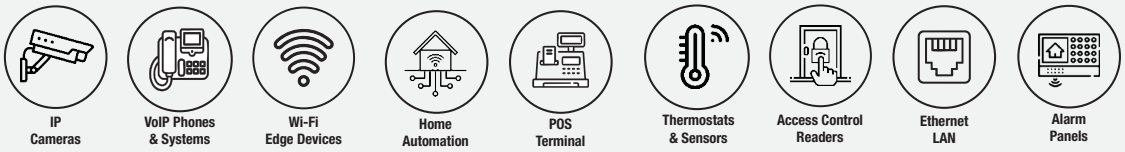
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Applications

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.



Recommended Products


S45-1100


S45-1600


S45-1605


S45-3600B/W


S45-3690B/BL/W


S45-S02R


S45-C100


S45-P300


S45-P420


S45-2024U


S45-2624


S45-2648

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