



BLACKSTONE CAT7 SFTP 600MHZ

Europe, Middle East and Africa regions



CAT 7 23AWG U/UTP CABLE 600MHZ

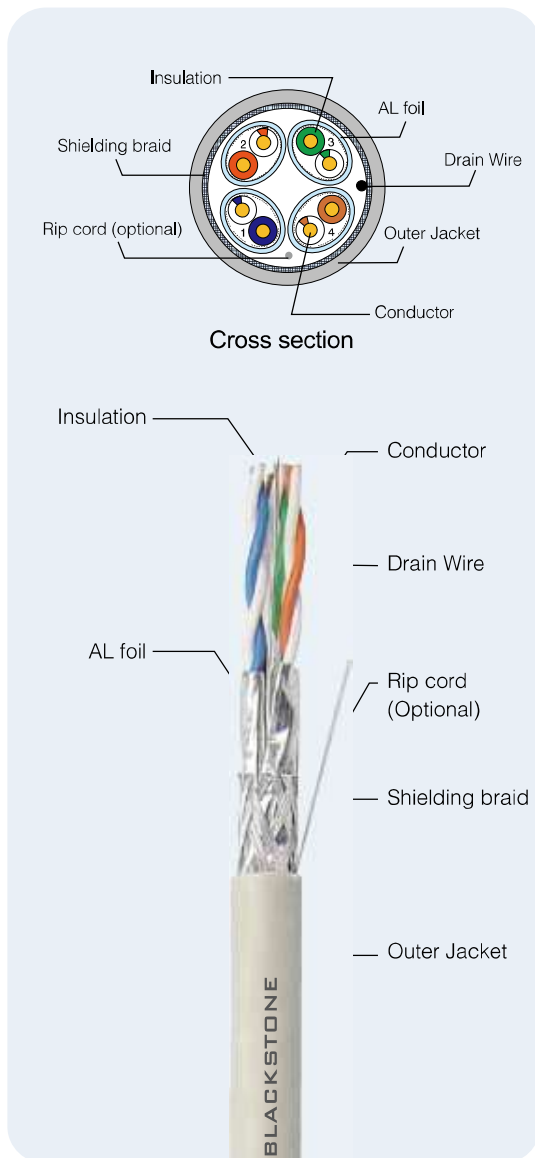
Description

- Rated temperature: 75 or 90 °C
- Reference standard: UL Subject 444, TIA/EIA 568B.2/568C.2 & ISO / IEC 11801, IEC 61156-5
- Oxygen free copper conductor
- Colour-Coded Foamed PE insulation
- Rip Cord (optional)
- PVC or LSZH jacket
- Packaging: Reel, Reel in Box

Application

- 100 BASE-T4
 - 100 BASE-TX
 - 100VG-AnyLAN
 - 1000Base-T
 - 1000 BASE-TX
 - 10G BASE-T
 - 155 Mbps ATM
 - 622 Mbps ATM
 - 10G Base-T
- POE, POE+, POE++

Product Figure



Physical Characteristics

Structure	Construction	U/UTP
	Number of Pairs	4 Pair
	AWG	23AWG
	Conductor Dimension(mm)	Per customer request
Insulation	Solid or Stranded; OFC or Tinned	Solid OFC
	Insulation Material	PE
	Insulation Dimension(mm)	Per specification reques
	Number Colour (Ring or Strip Marking)	1.white/blue & blue 2.white/orange & orange 3.white/green & green 4.white/brown & brown
Shield	Cross Filler	No
	Individual Shield & Material	Yes(AL-Foil)
	Outer Shield & Material	Yes(AL-Foil)
Outer Jacket	Drain Wire	Yes(0.4mmTC)
	Outer Jacket Material	V/PVC,E/PE,L/LSZH
	Outer Jacket Ripcord	Per customer request
Mechanical characteristics	Overall Nominal Diameter (mm)	7.8mm nominal, 8.1mm max
	Operating Temp. Range	-20~75°C
	Bulk Cable Weight (KG)	73kg/km, nominal
	Max, Recommended Pulling Tension	100N
	Min. Bend Radius (Install)	10x O.D.
	Flame Test	CMX, CM, CMR, IEC60332-1
Electical Characteristics	Nom, Mutual Capacitance@1kHz	≤ 5.6nF / 100M
	Max. Capacitance	≤ 160pF / 100M
	Unbalance (pF/100m)	
	Nominal Velocity of Propagation	65%
	Max.Delay Skew (ns/100m)	≤ 25ns/ 100M
	Ultimate Breaking Strength	>400 N (90 lbf)
	Max.DC Resistance	≤ 2%
	Unbalance @ 20 Deg. C	
Max. Insuation Resistance (MΩ/km)	5000	
Max. Operating Voltage UL	300V	

NOTE: TYPE * (*=V/PVC, L/LSZH, X/CM, R/CMR, E/PE)



PN:BSCA470000-SFL (COLOR) EX::BSCA470000-SFLY

INFRASTONE CAT 7 23AWG 600MHZ

Electrical Characteristics(TIA/EIA-568C)

Frequency(MHz)	1	4	10	16	20	25	31.25	62.5	100	150	200	250	300	600
Impedance(ohms)	100 ± 15	100 ± 15	100 ± 15	100 ± 15	100 ± 15	100 ± 15	100 ± 15	100 ± 15	100 ± 15	100 ± 22	100 ± 22	100 ± 25	100 ± 25	100 ± 25
ATT(dB/100m)	-	3.7	5.9	7.4	8.3	9.3	10.4	14.9	19.0	23.6	27.5	31.0	34.2	50.1
RL(dB)	-	23.0	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.9	18.0	17.3	17.3	17.3
NEXT(dB)	78.0	78.0	78.0	78.0	78.0	78.0	78.0	75.5	72.4	69.8	67.9	66.4	65.2	60.7
PSNEXT(dB)	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.5	69.4	66.8	64.9	63.4	62.2	57.7
FEXT(dB)	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
ELFEXT(dB)	78.0	78.0	74.0	69.9	68.0	66.0	64.1	58.1	54.0	50.5	48.0	46.0	44.5	38.4
PSELFEXT(dB)	75.0	75.0	71.0	66.9	65.0	63.0	61.1	55.1	51.0	47.5	45.0	43.0	41.5	35.4
TCL(dB)	40.0	34.0	30.0	28.0	27.0	26.0	25.1	22.0	20.0	18.2	17.0	-	-	-
PD(ns/100m)	-	552.0	545.4	543.0	542.0	541.2	540.4	538.6	537.6	536.9	536.5	536.3	536.1	535.5
SKEW(ns/100m)	-	25	25	25	25	25	25	25	25	25	25	25	25	25



HALOGEN-FREE, FLAME-RETARDANT (HFFR)

FOUR INDIVIDUALLY FOILED TWISTED PAIRS WITH AN OVERALL BRAID-SHIELD

VERY HIGH PERFORMANCE, DESIGNED TO SUPPORT PROTOCOLS RUNNING AT UP TO IEEE 802.3AN 10GBPS, 1000 MBPS, SUCH AS ATM 622 MBPS AND GIGABIT ETHERNET.



Note: The table provides reference values only. All parameters comply with the governing equations given above over the entire frequency range. All values and equations apply to worst-case channels utilizing four-pair INFRASTONE CAT6A series cable/cordage with full cross-connects, consolidation points and work area outlets (4connections in a channel) for the length up to 100 meters.

