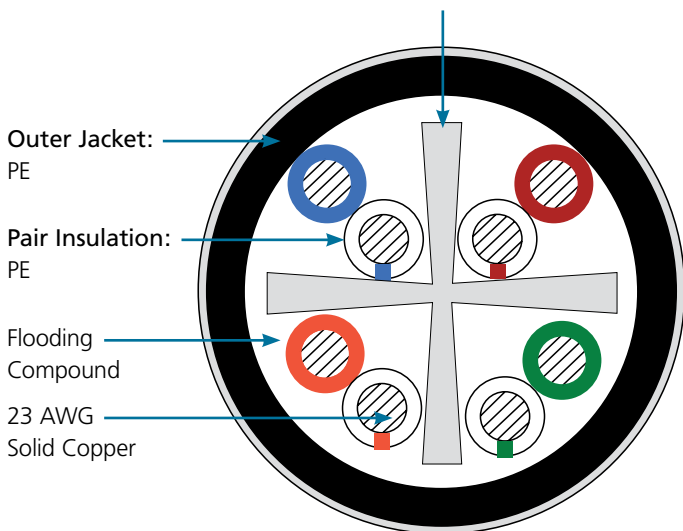


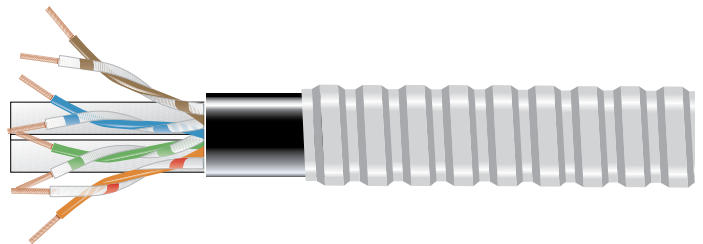
Product Data Sheet

CAT6 Outdoor-Rated, Gel-Filled Armored Cable

Patented Design (US 5,969,295)
With Isoator™ separator



4-Twisted-Pair Flooded Cable



Pair Identification

Pair 1	Blue/White w/Co-Extruded Blue Stripe on White Single
Pair 2	Orange/White w/Co-Extruded Orange Stripe on White Single
Pair 3	Green/White w/Co-Extruded Green Stripe on White Single
Pair 4	Brown/White w/Co-Extruded Brown Stripe on White Single

Mechanical Specification

Aluminum Armor Conduit OD	0.475"
Nominal Jacket OD	0.250"
Nominal Jacket Thickness	0.020"
Jacket Minimum Spot Thickness	0.020"
Installation Temperature	0°C to 60°C
Operation Temperature	-40°C to 70°C

Available Packaging: 1000' on 36x16x18 Black Composite Reel

Available Colors: Black

CAT6 Outdoor-Rated, Gel-Filled Armored Cable

Comparison Chart:

Frequency MHz	Attenuation (dB/100m)	Near End Cross Talk (dB)	ACR (dB/100m) Min	Power Sum (dB)			ELFEXT (dB/100m) Min	Return Loss (dB)	
				NEXT Min	ELFEXT Min	ACR Min		CommScope Min	EIA/TIA 568 Category 6
1.0	2.0	74.3	72.3	72.3	64.8	70.3	67.8	23.0	20.0
4.0	3.8	65.3	61.5	63.3	52.8	59.5	55.8	23.0	23.0
8.0	5.3	60.8	55.4	58.8	46.7	53.4	49.7	24.5	24.5
10.0	6.0	59.3	53.3	57.3	44.8	51.3	47.8	25.0	25.0
16.0	7.6	56.2	48.7	54.2	40.7	46.7	43.7	25.0	25.0
20.0	8.5	54.8	46.3	52.8	38.8	44.3	41.8	25.0	25.0
25.0	9.5	53.3	43.8	51.3	36.8	41.8	39.8	24.3	24.3
31.25	10.7	51.9	41.2	49.9	34.9	39.2	37.9	23.6	23.6
62.5	15.4	47.4	32.0	45.4	28.9	30.0	31.9	23.0	21.5
100.0	19.8	44.3	24.5	42.3	24.8	22.5	27.8	23.0	20.1
155.0	25.2	41.4	16.2	39.4	21.0	14.2	24.0	21.0	18.8
200.0	29.0	39.8	10.7	37.8	18.8	8.7	21.8	21.0	18.0
250.0	32.8	38.3	5.4	36.3	16.8	3.4	19.8	20.0	17.3

(All tests include swept frequency measurements)

Comparison Chart:

Input Impedance	100 ohms + 15 ohms 1-100 MHz
	100 – 200 MHz + 20 ohms
	200 – 250 MHz + 25 ohms
Capacitance	4.6 nF/100m nominal
DC Resistance/Unbalance	8.16 ohms/100m Max/ 2.5% Max
Dielectric Breakdown	2500 Volts DC Conductor to Conductor
Propagation Delay Skew	≤ 45ns/100m
Nominal Velocity of Propagation, NVP	61.7%

Cables are specified with a 5% allowance on propagation delay to the TIA/EIA 568.B.2-1 specification, due to water proofing agents.

Armor:

Physical Specifications	
Minimum Bend Radius, loaded	20xOD
Minimum Bend Radius, unloaded	14xOD
Tensile Load, long term, maximum	90#
Tensile Load, short term, maximum	300#
Mechanical Test Specifications	
Compression	85 N/mm 485 lb/in
Compression Test Method	FOTP-41
Flex	25 cycles
Flex Test Method	FOTP -104
Impact	35.00 N-m 25.8 ft lb
Impact Test Method	FOTP-25
Strain	300/90#
Strain Test Method	FOTP-33
Twist	10 cycles
Twist Test Method	FOTP-85

Disclaimer:

Black Box Network Services shall not be liable for damages of any kind, including, but not limited to, punitive, consequential or cost of cover damages, resulting from any errors in the product information or specifications set forth in this document and Black Box Network Services may revise this document at any time without notice.

© Copyright 2015. Black Box Corporation. All rights reserved. Black Box® and the Double Diamond logo are registered trademarks of BB Technologies, Inc. Any third-party trademarks appearing in this publication are acknowledged to be the property of their respective owners.