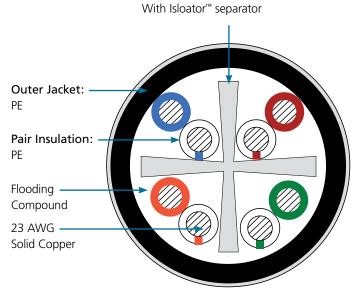


# **Product Data Sheet**

# **CAT6 Outdoor-Rated, Gel-Filled Armored Cable**

### Patented Design (US 5,969,295)





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

Available Packaging: 1000' on 36x16x18 Black Composite Reel

Available Colors: Black

### **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	

# CAT6 Outdoor-Rated, Gel-Filled Armored Cable

### **Comparison Chart:**

Frequency	Attenuation	Near End	ACR Power Sum (dB)		(dB)	ELFEXT	Return Loss (dB)		
MHz	(dB/100m)	Cross Talk (dB)	(dB/100m) Min	NEXT Min	ELFEXT Min	ACR Min	(dB/100m) 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:**

	100 ohms + 15 ohms 1-100 MHz
Input Impedance	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			

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