



VERTICAL CABLE

# CAT6A DIRECT BURIAL CABLE

CMX | WATER-RESISTANT | UV-RESISTANT  
23 AWG 8 CONDUCTOR (F/UTP)

## 069-565/A/CMXT

### DESCRIPTION

600 MHz CAT6A, Outdoor UV Dual Jacket, CMX/  
Water-Resistant/Direct Burial, 4 Twisted Pairs  
(F/UTP) 8 23-AWG Solid Bare Copper Conductors

### FEATURES

- Supports 10/100/1000BASE-T applications
- Ideal for 10G Networks up to 100 meters
- Fast Ethernet and 155Mbps TP-PMD/CDDI
- Outdoor UV-resistant dual jacket
- Water-Resistant / Direct Burial / Overall Shield
- 600 MHz bandwidth supporting wide range of applications
- 23 AWG Solid Copper Conductors
- Easily identifiable pair insulation colors
- Exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 specifications
- CAN/CSA-C22.2 No. 214, RoHS compliant
- ETL listed
- Weight: 55 lb (25 kg)



### TRANSMISSION PERFORMANCE

Meets or exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 specifications

### CONSTRUCTION

Pairs: 4  
 Conductors: 8  
 Drain Wire: Tinned Copper 0.02 in. (0.51 mm)  
 Separator Material: High Density Polyethylene (HDPE)  
 Screen: Foiled (F/UTP)

### CONDUCTORS

Material: Solid Bare Annealed Copper  
 Size: 23 AWG  
 Conductor Voltage Rating: 60 V<sub>RMS</sub>

### INSULATION

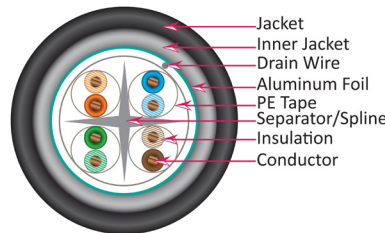
Material: Three pairs with HDPE / One pair with Foam PE  
 Diameter: 0.04 in. (1.02 mm)  
 Average Thickness: 0.01 in. (0.25 mm)  
 Insulation Rating: 300 V<sub>RMS</sub>  
 Color Coding: **Pair 1:** White-Blue/Blue **Pair 2:** White-Orange/Orange  
**Pair 3:** White-Green/Green **Pair 4:** White-Brown/Brown

### INNER JACKET (GRAY)

Material: Polyvinyl Chloride (PVC)  
 Outer Diameter: 0.29 in. (7.30 mm)  
 Average Thickness: 0.02 in. (0.51 mm)

### OUTER JACKET (BLACK)

Material: Linear Low Density Polyethylene (LLDPE)  
 Outdoor Rating: UV-Resistant  
 Outdoor Diameter: 0.36 in. (9.20 mm)  
 Average Thickness: 0.0255 in. (0.65 mm)  
 Marking: VERTICAL 4001453 cETLus VERIFIED CMX UTP 4PR 23AWG OUTDOOR UV LLDPE 10GS AUGMENTED CAT6A ANSI/TIA-568.2-D RoHS XXXXFT



Florida (HQ)  
800-749-2447

California  
951-696-7772

New York  
845-391-8318

Texas  
713-322-7242

verticalcable.com

This specification sheet is subject to change without notice.



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## ELECTRICAL CHARACTERISTICS

Voltage Rating: 60 V<sub>RMS</sub>

## MECHANICAL

Before Tensile Strength (Mpa): ≥14.8 MPa  
 Elongation After Aging (%): ≥100  
 Aging Conditions (°C × h): 100x240  
 Tensile Strength After Aging (Mpa): ≥85% of unaged  
 Elongation After Aging (%): ≥50% of unaged  
 Cold Bend (-40±2°C x 4hrs): No Crack  
 Maximum Pulling Force: 100 N  
 Minimum Bending Radius: 8XOD  
 Nominal Weight: 68 KG/KM  
 Operating Temperature: -40 °C ~ +70 °C

## SAFETY

FPA 70 (NEC®) fire rating: CMX

## ENVIRONMENTAL

Operating Temperature: -40 °F-167 °F (-40 °C-75 °C)

Transmission Frequency (Mhz)	NEXT (dB)	Attenuation (dB/100m)	Return Loss (dB)	PSNEXT (dB)	ACRF (dB)	PS ACRF (dB)	PS ANEXT (dB)	PS AACRF (dB)	Delay (ns/100m)	Skew (ns/100m)
1	74.3	2.1	20	72.3	67.8	64.8	92.5	78.2	570	45
4	65.3	3.8	23	63.3	55.8	52.8	83.5	66.2	552	
10	59.3	5.9	25	57.3	47.8	44.8	77.5	58.2	545	
16	56.2	7.5	25	54.2	43.7	40.7	74.4	54.1	543	
20	54.8	8.4	25	52.8	41.8	38.8	73.0	52.2	542	
31.25	51.9	10.5	23.6	49.9	37.9	34.9	70.1	48.3	540	
62.5	47.4	15.0	21.5	45.4	31.9	28.9	65.6	42.3	539	
100	44.3	19.1	20.1	42.3	27.8	24.8	62.5	38.2	538	
200	39.8	27.6	18	37.8	21.8	18.8	58.0	32.2	537	
250	38.3	31.1	17.3	36.3	19.8	16.8	56.5	30.2	536	
500	33.8	45.3	15.2	31.8	13.8	10.8	52.0	24.2	536	

Frequencies	Characteristic Impedance (ohm)	
1	100+/- 15	
4		
10		
16		
20		
31.25		
62.5		
100		
200		+/- 22
250		
500	+/- 25	

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