

DESCRIPTION

• 23 AWG 4 Pair S/FTP Category 7 cable tested to 600 MHz riser grade, high performance for top level network cabling for maximum headroom and bandwidth. Available in reel for easier installation.

FEATURES AND BENEFITS

- supports up to 600 MHz maximum frequency and 10 Gbps ten-gigabit transmission, equipped with full shielding to resist electromagnetic interference
- Improved cable temperature rating (75°C Riser) for greater protection against in creased operating temperatures
- Sequential footage markings
- Verified by third-party for guaranteed performance

APPLICATIONS

- . 100Base-T4
- . 100Base-TX
- . 1000Base-T
- . 1000Base-TX
- . 155Mbps ATM
- . 622Mbps ATM
- . 10 Gb Ethernet
- . IEEE 802.3af/at/bt

REFERENCE STANDARD

- ISO/IEC 61156
- ISO/IEC 11801 Ed. 2.0 (Class F)
- UL444
- UL1666
- REACH Compliant
- RoHS Compliant Directive 2002/95/EG

Toll Free: (866) 945-5051

Local: (770) 945-5051

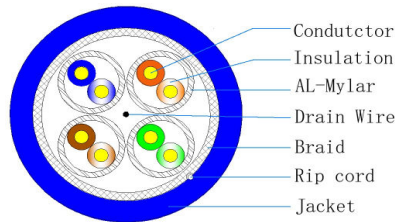
Fax: (770) 945-9582

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CAT7 S/FTP 23AWG/4PAIR CMR 10GIG

PART NO. 7CMR234RX



PHYSICAL PROPERTIES

Conductor	Material	Solid Bare Copper
	Diameter (±0.01mm)	0.57
	Material	FOAM PE
Insulation	Insulation Dia (±0.05mm)	1.32
	Colour	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
	Colour	100% coverage
Shielded	AL-Mylar	0.4TC
	Drain Wire (±0.01mm)	ALMg braid Density≥40%
	Braid	
Rip cord	Yes	
Jacket	Material	PVC RISER
	Jacket Diameter (±0.3mm)	7.8
	Thickness (±0.1mm)	0.55
Put/UPs	Length (±4ft)	1000
	Weight	17.8KGS
VoltageRating (Max)		DC 60V
Flame Test Method		UL1666 CMR

Electrical properties @ 20°C

conductor resistance	≤78Ω/km
Conductor resistance unbalance	≤5%(@20°C)
Delay skew	≤25ns/100m
Working capacity	≤5.6nF/100m(@1kHz)
insulation resistance	≥5000MΩ.km
Capacitive unbalance to earth	≤330 pF/100m(@1kHz)
Impedance	100±25Ω

Mechanical properties

Operating temperature	-20~75°C
Minimum bending radius	4× Cable OD
Jacket Elongation at break	≥100%
Jacket Tensile strength	≥13.8Mpa
Jacket Aging conditions	100°C 240h
Jacket Elongation at break After Aging	≥50% Before Aging
Jacket Tensile Strength After Aging	≥85% Before Aging
Low temperature winding experiment	-20°C 4h No visible cracks



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Transmission performance:(@20°C/100m)

Frequency (MHz)	ATT (< dB)	NEXT (> dB)	PSNEXT (> dB)	ACRF (> dB)	PSACRF (> dB)	RL (> dB)	Delay (< ns)	Spread out 100m cable and test it
4.00	3.7	78.0	75.0	78.0	75.0	23.0	552.0	
8.00	5.2	78.0	75.0	75.9	74.2	24.5	547.0	
10.00	5.9	78.0	75.0	74.0	72.3	25.0	545.0	
16.00	7.4	78.0	75.0	69.9	68.2	25.0	543.0	
20.00	8.3	78.0	75.0	68.0	66.3	25.0	542.0	
25.00	9.3	78.0	75.0	66.0	64.3	24.3	541.0	
31.25	10.4	78.0	75.0	64.1	62.4	23.6	540.0	
62.50	14.9	75.5	72.5	58.1	56.4	21.5	539.0	
100.00	19.0	72.4	69.4	54.0	52.3	20.1	538.0	
200.00	27.5	67.9	64.9	48.0	46.3	18.0	537.0	
250.00	31.0	66.4	63.4	46.0	44.3	17.3	536.0	
300.00	34.2	65.2	62.2	44.5	42.8	17.3	536.0	
400.00	40.0	63.4	60.4	42.0	40.3	17.3	536.0	
500.00	45.3	61.9	58.9	40.0	38.3	17.3	536.0	
600.00	50.1	60.7	57.7	38.4	36.7	17.3	535.0	

*Values Table parameters are for reference only

AVAILABLE CATEGORY 7 (PART NUMBERS)

BLUE

7CMR234RO

WHITE

7CMR234RW

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AVAILABLE JACKET COLORS			
STANDARD	BLUE	WHITE	GRAY
	BLACK	RED	GREEN
	YELLOW	ORANGE	PURPLE
	PINK		
	SPECIAL	Per Customer Request*	
INSULATION COLORS			
PAIR 1	BLUE	WHITE	
PAIR 2	ORANGE	WHITE	
PAIR 3	GREEN	WHITE	
PAIR 4	BROWN	WHITE	

JACKETS ABBREVIATION

Black	B	Last alphabetical character of each part number indicates the color code that the Jacket is available in. For example Part # 6CMR244Bx ("x" indicates all the colors to the left are available for this product.
White	W	
Gray	G	
Blue	O	
Yellow	Y	
Green	V	# 6CMR244Bx ("x" indicates all the colors to the left are available for this product.
Orange	OR	
Purple	P	
Red	R	
Pink	PI	