

# Category 3 CMR/CMP (2-Pair - 400-Pair)



## Product Description

The ideal choice for LAN transmission with specified bandwidth up to 16 MHz. These cables are used for voice and data communications and can handle application bandwidths up to 16 MHz. Other uses for these cables include indoor use on customer premises for the interconnection of telephone key systems, PBX and intercom systems. Product is offered for both Plenum (CMP) and Riser (CMR) applications.

## Features

- CMR and CMP constructions use extremely flexible, FR-PVC jacket
- Jacket color options
- Bandmarked insulated conductors

## Benefits

- Easier and less time-consuming installations, no kinking of outer jacket
- Improves backbone sub-system identification, reduces labor and mistakes
- Reduces termination time and improves circuit identification

## Applications

- 4 Mbps Token Ring™ (IEEE 802.5)
- Analog Voice
- 10 Mbps 10 BASE-T Ethernet (IEEE 802.3)
- Telecommunications Closet Wiring

## Physical Description CMR

- Conductor: 24 AWG (0.5 mm) Solid Annealed Bare Copper
- Insulation: Polyolefin or PVC (Polyvinyl Chloride)
- Jacket: Flame Retardant PVC (Polyvinyl Chloride)

## Physical Description CMP

- Conductor: 24 AWG (0.5 mm) Solid Annealed Bare Copper
- Insulation: Low Smoke FR-PVC (Polyvinyl Chloride)
- Jacket: Low Smoke FR-PVC (Polyvinyl Chloride)

### Electrical CMR/CMP – Horizontal 2-4 Pair

Frequency MHz	Attenuation (dB/100m) @ 20°C Maximum Guaranteed	NEXT (dB/100m) Minimum Guaranteed	SRL (dB/100m) Guaranteed Minimum
0.772	2.2	43	12
1	2.6	41	12
4	5.6	32	12
8	8.5	28	12
10	9.7	26	12
16	13.1	23	10

### Electrical CMR/CMP – Category 3 Backbone 6 Pair and Larger

Frequency MHz	Attenuation (dB/100m) @ 20°C Maximum Guaranteed	PS-NEXT (dB/100m) Minimum Guaranteed	SRL (dB/100m) Guaranteed Minimum
0.772	2.2	43	12
1	2.6	41	12
4	5.6	32	12
8	8.5	28	12
10	9.7	26	12
16	13.1	23	10

Characteristic Impedance (Ohms)	Delay Skew (ns/100m) Maximum	DC Resistance (Ohms/100m) Maximum	Resistance Unbalance (%) Maximum
100+/-15	45	9.38	5

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Part Numbers and Physical Characteristics							
	Part #	Pair Count	AWG (mm)	Jacket Color	Nom. Dia. inches (mm)	Approx. Weight lbs/kft (kg/km)	Package
<b>CMR</b>	18-042-13	2	24 (0.5)	beige	0.12 (3.0)	8.7 (12)	1000' POP Box®
	18-042-33	2	24 (0.5)	gray	0.12 (3.0)	8.7 (12)	1000' POP Box
	18-141-13	3	24 (0.5)	beige	0.14 (3.6)	12 (18)	1000' POP Box
	18-141-33	3	24 (0.5)	gray	0.14 (3.6)	12 (18)	1000' POP Box
	18-241-13	4	24 (0.5)	beige	0.16 (4.1)	16 (24)	1000' POP Box
	18-241-23	4	24 (0.5)	blue	0.16 (4.1)	16 (24)	1000' POP Box
	18-241-33	4	24 (0.5)	gray	0.16 (4.1)	16 (24)	1000' POP Box
	18-241-43	4	24 (0.5)	white	0.16 (4.1)	16 (24)	1000' POP Box
	18-341-13	6	24 (0.5)	beige	0.18 (4.6)	22 (33)	1000' POP Box
	18-341-33	6	24 (0.5)	gray	0.18 (4.6)	22 (33)	1000' POP Box
	18-872-13	12	24 (0.5)	beige	0.27 (6.9)	47 (70)	1000' Reel
	18-872-33	12	24 (0.5)	gray	0.27 (6.9)	47 (70)	1000' Reel
	18-475-13	25	24 (0.5)	beige	0.38 (9.7)	92 (137)	1000' Reel
	18-499-13	25	24 (0.5)	beige	0.38 (9.7)	92 (137)	Cut to length
	18-475-33	25	24 (0.5)	gray	0.38 (9.7)	92 (137)	1000' Reel
	18-499-33	25	24 (0.5)	gray	0.38 (9.7)	92 (137)	Cut to length
	18-579-13	50	24 (0.5)	beige	0.56 (14)	187 (278)	1000' Reel
	18-599-13	50	24 (0.5)	beige	0.56 (14)	187 (278)	Cut to length
	18-579-33	50	24 (0.5)	gray	0.56 (14)	187 (278)	1000' Reel
	18-599-33	50	24 (0.5)	gray	0.56 (14)	187 (278)	Cut to length
	18-789-13	100	24 (0.5)	beige	0.74 (19)	361 (537)	Cut to Length
	18-789-33	100	24 (0.5)	gray	0.74 (19)	361 (537)	Cut to Length
	18-D99-33	150	24 (0.5)	gray	0.92 (23)	541 (805)	Cut to length
	18-A99-33	200	24 (0.5)	gray	1.05 (27)	711 (1058)	Cut to length
	18-B99-33	300	24 (0.5)	gray	1.27 (32)	1049 (1561)	Cut to length
	18-C99-33	400	24 (0.5)	gray	1.47 (37)	1403 (2088)	Cut to length
	<b>CMP</b>	18-041-36	2	24 (0.5)	gray	0.13 (3.3)	10 (15)
18-141-36		3	24 (0.5)	gray	0.15 (3.8)	14 (21)	1000' POP Box
18-241-26		4	24 (0.5)	blue	0.17 (4.3)	18 (27)	1000' POP Box
18-241-36		4	24 (0.5)	gray	0.17 (4.3)	18 (27)	1000' POP Box
18-241-46		4	24 (0.5)	white	0.17 (4.3)	18 (27)	1000' POP Box
18-241-56		4	24 (0.5)	green	0.17 (4.3)	18 (27)	1000' POP Box
18-341-36		6	24 (0.5)	gray	0.20 (5.1)	26 (39)	1000' POP Box
18-341-46		6	24 (0.5)	white	0.20 (5.1)	26 (39)	1000' POP Box
18-872-46		12	24 (0.5)	white	0.29 (7.4)	54 (80)	1000' Reel
18-475-36		25	24 (0.5)	gray	0.42 (11.0)	113 (168)	1000' Reel
18-499-36		25	24 (0.5)	gray	0.42 (11.0)	113 (168)	Cut to length
18-475-46		25	24 (0.5)	white	0.42 (11.0)	113 (168)	1000' Reel
18-499-46		25	24 (0.5)	white	0.42 (11.0)	113 (168)	Cut to length
18-579-36		50	24 (0.5)	gray	0.59 (15.0)	224 (333)	1000' Reel
18-599-36		50	24 (0.5)	gray	0.59 (15.0)	224 (333)	Cut to length
18-799-36		100	24 (0.5)	gray	0.82 (21.0)	437 (650)	Cut to Length
18-A99-36		200	24 (0.5)	gray	1.15 (29.0)	852 (1268)	Cut to length
18-B99-36		300	24 (0.5)	gray	1.39 (35.0)	1236 (1839)	Cut to length
18-C99-36		400	24 (0.5)	gray	1.62 (41.1)	1681 (2504)	Cut to length

**Standards Compliance:**  
 UL 444, UL Listed CMP (NFPA 262), UL Listed CMR (UL 1666), ANSI/TIA/EIA 568-B.2, Category 3, RoHS Compliant.