

Category 6 4-pair UTP CMR Cable

Issue 1



This Category 6, UTP 4 -pair CMR cable is an unshielded cable with PVC outer sheath with rip cord, for use in high speed data communication. With internationally defined physical and electrical performance up to 250MHz.

Specifications

Conductor: 23 AWG copper
Insulation: Polyethylene
Jacket: PVC
Outside diameter 6.1mm nominal
Complies with: ISO/IEC 11801
TIA/EIA 568-C.2
EN50173
UL Listed

Mechanical Characteristics:

Minimum bend radius:
- During installation 50mm
- After installation 25mm
Maximum pulling tension 10.5kg
Box weight- full, nominal 14kg

Thermal Characteristics:

Operation -15°C to 70°C
Installation 5°C to 40°C

Electrical Characteristics:

Conductor DC resistance @ 20°C (max) 9.38Ω/100m
DC resistance unbalance (max) 5%
Mutual capacitance @ 20°C (max) 5.6nF/100m
Impedance 100+/-15 Ω
NVP Setting 70%

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Freq.	Attenuation	Return Loss	Pr-Pr ACR	Power Sum ACR	Pr-Pr NEXT	Power Sum NEXT	Pr-Pr ELFEXT	Power Sum ELFEXT
(MHz)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB100m)	(dB/100m)	(dB/100m)	(dB/100m)
1	2	20.0	72.3	70.3	74.3	72.3	67.8	64.8
4	3.8	23.0	61.5	59.5	65.3	63.3	55.8	52.8
8	5.3	24.5	55.5	53.5	60.8	58.8	49.7	46.7
10	6.0	25.0	53.3	51.3	59.3	57.3	47.8	44.8
16	7.6	25.0	48.6	46.6	56.2	54.2	43.7	40.7
20	8.5	25.0	46.3	44.3	54.8	52.8	41.8	38.8
25	9.5	24.3	43.8	41.8	53.3	51.3	39.8	36.8
31.25	10.7	23.6	41.2	39.2	51.9	49.9	37.9	34.9
62.5	15.4	21.5	32.0	30.0	47.4	45.4	31.9	28.9
100	19.8	20.1	24.5	22.5	44.3	42.3	27.8	24.8
200	29.0	18.0	10.8	8.8	39.8	37.8	21.8	18.8
250	32.8	17.3	5.5	3.5	38.3	36.3	19.8	16.8

Ordering Information

Description	Quantity	Colour	Product No.
Category 6 4-pair Solid UTP CMR Cable	305m reel	Grey	6916 1 030-01
Category 6 4-pair Solid UTP CMR Cable	305m reel	Blue	6916 1 030-03

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