

Category 6 Direct Burial Data Communication Cable



APPLICATION:

Category 6 Direct Burial Data Communication Cable is suitable to be used as structured cabling for voice and high speed data in commercial and residential building for voice, video and LAN data lines, when installation is to be directly buried in earth. The Cable is suitable for use up to 550MHz and is rated CMX and CMR.

CONDUCTORS:

- Solid bare copper

INSULATION:

- High density polyethylene (HDPE)

CABLING:

- 4 twisted pairs are cabled together and each pair is twisted in different lays to minimize cross-talk interferences. The pairs are separated from each other by an X divider and the cable is water block gel filled

JACKET:

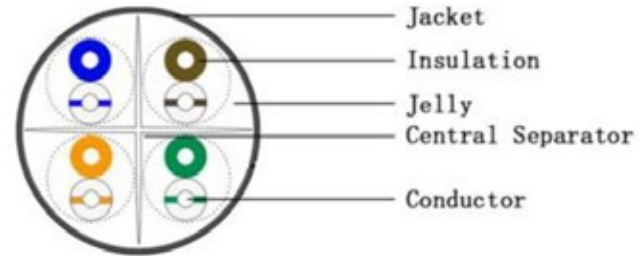
- Black sunlight resistant, CMX, CMR and direct burial rated PE

STANDARDS:

- UL listed or ETL verified Type CMX, CMR
- UL 444 & 1666
- Type CMX and CMR per NEC Article 800
- TIA/EIA-568-C.2

CAT6 CMX & CMR 23 AWG 4 Pairs			
Part Number	Type	Nominal Overall Diameter	Approx. Weight
		inches	lbs/kft
TEL24-4PC6-DB-GEL-RL	CMX & CMR	0.260	30

Electrical Characteristics (20 °C)		
1.0~ 250 MHz Impedance	100 ± 15%	ohms
1.0~250.0MHz Delay Skew	<45	ns/100m
Mutual Capacitance @ 1KHz, 20°C	<5.6	pF/100m
Cap. Unbalanced to Ground @ 1KHz, 20°C	<330	pF/100m
Max. Conductor DC Resistance 20°C	<9.38	ohms/100m
Resistance Unbalance 20°C	<5	%



Performance							
Frequency	Return Loss dB	NEXT, min.	PSNEXT, min.	ACRF, min.	PSACRF, min.	Insertion Loss	Delay, max.
MHz	minimum	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	ns/100m
1.0	20.0	74.3	72.3	67.8	64.8	2.0	600
4.0	23.0	65.3	63.3	55.8	52.8	3.8	582
8.0	24.5	60.8	58.8	49.7	46.7	5.3	577
10.0	25.0	59.3	57.3	47.8	44.8	6.0	575
16.0	25.0	56.2	54.2	43.7	40.7	7.6	573
20.0	25.0	54.8	52.8	41.8	38.8	8.5	572
25.0	24.2	53.3	51.3	39.8	36.8	9.5	571
31.3	23.3	51.9	49.9	37.9	34.9	10.7	570
62.5	20.7	47.4	45.4	31.9	28.9	15.4	579
100.0	19.0	44.3	42.3	27.8	24.8	19.8	578
200.0	16.4	39.8	37.8	21.8	18.8	29.0	577
250.0	15.6	38.3	36.3	19.8	16.8	32.8	576

All values are nominal and subject to correction



1-800-945-5542
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