

CATEGORY 5e – OUTDOOR CABLE 4 PAIR #24 AWG

SUITABLE FOR DIRECT BURIAL – (FLOODED)

Custom P/N: 33535

CAT 5E 24/4 Pair Solid BC for Direct Burial (Flooded)	WT/MFT 20	NOM OD 0.250	BLACK JACKET
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Construction

Primaries:

- Conductor: 24 AWG Solid Bare Copper.
- Insulation: Black Polyethylene.

Cable Assembly:

- 4 Pairs Cabled Together.
- Insulation ETPR.
- Jacket: PE With Floodant.
- Tough UV & Abrasion Resistant Jacket.
- OD 0.250.

FREQ. (MHz)	ATTN. (dB/100m) Max.	NEXT Loss (dB) Min.	PSNEXTLoss (dB) Min.	ACR (dB @ 100m) Min.	PSACR (dB @ 100m) Min.	ELFEXT (dB @ 100m) Min.	PSELFEXT (dB @ 100m) Min.	RET. LOSS (dB) Max.
1	2.0	65.3	62.5	63.3	60.3	63.8	60.8	20.0
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.3	44.3	39.1	36.1	39.7	36.7	25.0
20	9.3	45.8	42.8	36.5	33.5	37.7	34.7	25.0
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6
62.5	17.0	38.4	35.4	21.4	18.4	27.8	24.8	21.5
100	22.0	35.3	32.3	13.3	10.3	23.8	20.8	20.1

Specification Value

Mutual Capacitance: (nF/100m) Nominal	4.4
DC Resistance: (Ohms/100m @ 20°C) Max	8.9
Delay Skew: (ns/100m) Max	45
Velocity of Propagation: Non-Plenum (5):	70
Plenum (%):	72
Input Impedance: (Ohms @ 1-100 MHz)	100 +/- 15

NOTE: Unshielded. Material Suitable for Direct Burial if environmental elements are not too demanding. Can also be used in duct or aerially lashed to a support member.

CATEGORY 5E – DUAL CMR, 4 PAIR #24 AWG

ETL DUAL LISTED CMR AND C(ETL) LISTED CMG-FT4

Custom P/N: 35406

NOM OD: 0.185 x 0.370
24/4 Pair Dual CMR, approximately 40 lbs./mft.
Tested to 350 MHz, CAT 5e.

Construction

Parameters: (Same for both legs)

- Conductor: Solid Copper. - 0.020 Dia.
- Dielectric: Solid PE. - 0.036 Dia.
- Pair Lays: Each pair has different lay length for cross-talk prevention.
- Ripcord: Polyester.
- Jacket: PVC. - 0.185 x 0.370 Dia.
- OD 0.125 x 0.370.

Miscellaneous:

- Pair Colors (Both Legs): W/BL with BL, W/OR with O, W/GR with GR, W/BR with BR.
- Jacket Color (Both Legs): Blue
- Jacket Print (One Leg): CAT5E, 24 AWG C(ETL) US LISTED (ETL CODE) TYPE CMR FT-4 ETL VERIFIED TO TIA/EIA-568-B.2 CAT5E TESTED TO 350 MHZ CAT5E. (Also printed with sequential footage and date code).
- Flame Rating: UL-1666 Riser Tray Flame Test.
- Applicable NEC Article: 800.
- Applicable TIA/EIA: 568-B.2.
- Approximate Weight (lb/1000 ft.): 40

Electrical Properties

DC Resistance Max. (ohms/m @ 20° C):	9.38
DC Resistance Unbalanced Max. (%):	5
Characteristic Impedance (ohms):	85-115
Velocity of Propagation (%):	66
Pair-to-Ground Cap. Unbal.:	330
Max. (pF/100m):	
Attenuation (Nom. db/100'):	100 MHz 21.5
	200 MHz 31.1
SRL Minimum (dB)	23
Loss Min. (dB):	23-10log10(F/20)

Crosstalk

	100 MHz	200 MHz	300 MHz
NEXT (Nom. db/100m):	46.0	38.5	30.0
PSNEXT (Nom. db/100m):	44.0	37.0	
ELFEXT (Nom. db/100m):	23.8		
PSELFEXT (Nom. db/100m):	32.5	27.5	

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