

CAT5E DIRECT BURIAL GEL FILLED (FLOODED CORE)

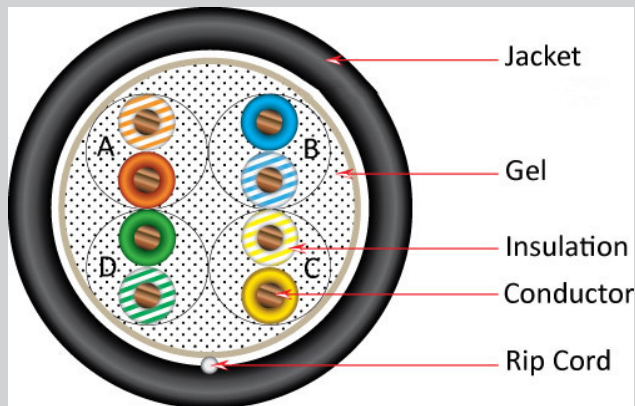


DESCRIPTION

Category-5E CMXF Direct Burial, Flooded Core, 8-Conductor, Outdoor Jacket, AWG24 Solid-Bare Copper.

FEATURES

- High-Performance Data Cable
- 350MHz Bandwidth for Data Applications, Fast Ethernet and 155Mbps TP-PMD/CDDI
- Category-5E Unshielded Twisted Pair
- Easily Identified Color-Striped Pairs
- 24AWG Solid Copper Conductors
- Exceeds TIA/EIA-568B.2, ISO/IEC 11801
- CAN/CSA -C22.2 No. 214
- Direct Burial Gel Filled (Flooded Core)
- ETL Listed, 1000ft Pull Box



Technical Data

Rated Temperature	75 °C
Rated Voltage	30v
Application	Horizontal Wiring in LAN
Reference Standard	TIA/EIA 568 & ISO/IEC 11801

Conductor

Size

Solid Bare Copper

24 AWG

Insulation

Average Thickness (mm)

0.208

Min. Point Thickness (mm)

0.186

Insulation Diameter (± 0.005 mm)

0.91

Twisted Pair Diameter (± 0.01)

1.92

Filler

Assembly Dia. (± 0.2 mm)

Gel

4.00

Jacket

Average Thickness (mm)

0.60

Min. Point Thickness (mm)

0.54

Outer Diameter (± 0.10 mm)

5.40

Rip Cord

Yes

Color of Pairs

Pair 1:Blue,White-Blue

Pair 2:Orange,White-Orange

Pair 3:Green,White-Green

Pair 4:Brown,White-Brown

Mechanical Characteristics

Test Object

Jacket

Test Material

LLDPE

Before Tensile Strength (Mpa)

≥ 13.8

Aging Elongation (%)

≥ 100

Aging Condition ($^{\circ}\text{C} \times \text{hrs}$)

100x168

After Tensile Strength (Mpa)

$\geq 85\%$ of unaged

Aging Elongation (%)

$\geq 50\%$ of unaged

Cold Bend ($-20 \pm 2^{\circ}\text{C} \times 4\text{hrs}$)

No Crack



Rev. 05/2015

Subject to change without notice.

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PERFORMANCE

Electrical Characteristics:

1.0-350MHz Impedance (Ohms)	100±15
1.0-350.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	93.8
Resistance Unbalance (%)	<=5

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max (dB/100m)	Next (Min dB)
1	20.0	2.0	68.3
4	23.0	4.1	59.3
8	24.5	5.8	54.8
10	25.0	6.5	53.3
16	25.0	8.2	50.3
20	25.0	9.3	48.8
25	24.3	10.4	47.3
31.25	23.6	11.7	45.9
62.5	21.5	17.0	41.4
100	20.1	22.0	38.3
155	18.8	28.1	35.5
200	18.0	32.4	33.8
240	17.4	36.0	32.6
300	16.8	41.0	31.2
350	16.3	44.9	30.1

Frequency (Mhz)	PSNext (Min dB)	ELFEXT Min(dB/100m)	PSELFEXT Min(dB/100m)
1	66.3	63.8	60.8
4	57.3	51.7	48.7
8	52.8	45.7	42.7
10	51.3	43.8	40.8
16	48.3	39.7	36.7
20	46.8	37.8	34.8
25	45.3	35.8	32.8
31.25	43.9	33.9	30.9
62.5	39.4	27.8	24.8
100	36.3	24.0	21.0
155	33.5	20.0	17.0
200	31.8	17.7	14.7
240	30.6	16.2	13.2
300	29.2	14.2	11.2
350	28.1	12.9	9.9