

CAT5E DIRECT BURIAL 25P GEL FILLED (FLOODED CORE)

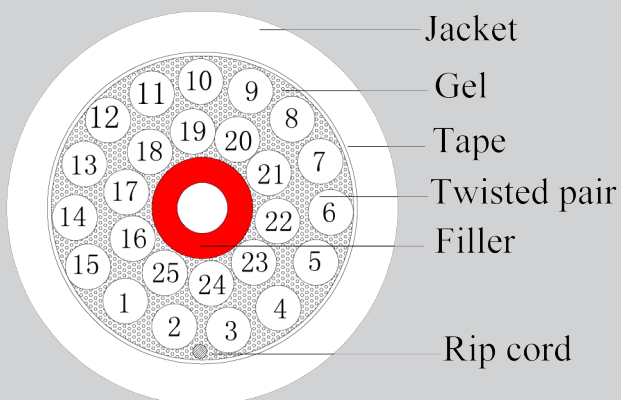
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DESCRIPTION

Category-5E CMXF Direct Burial, Flooded Core, 50-Conductor, Outdoor Jacket, AWG24 Solid-Bare Copper.

FEATURES

- High-Performance Data Cable
- 25 Pair Category-5E Unshielded Twisted Pair
- Easily Identified Color-Striped Pairs
- 24AWG Solid Copper Conductors
- Exceeds TIA/EIA-568B.2
- Direct Burial Gel Filled (Flooded Core)
- ETL Listed
- 1000ft Wooden Spool



SKU: 059-488/CMXF25P

Technical Data

Rated Temperature 70 °C
Rated Voltage 30V

Conductor

Size Solid Bare Copper

Insulation

Average Thickness (mm) 0.235
Insulation Diameter (±0.005mm) 0.97
Twisted Pair Diameter (±0.01) 1.94

Filler

Gel PVC

PE Yes

PE Tape Yes

Assembly Dia. 10.80mm

Jacket LLDPE (UV)

Average Thickness (mm) 1.20

Outer Diameter (±0.10mm) 13.20

Rip Cord Yes

Color of Pairs

Pair1:Blue-White Pair2:Orange-White Pair3:Green-White
Pair4:Brown-White Pair5:Gray-White Pair6: Blue-Red
Pair7:Orange-Red Pair8:Green-Red Pair9:Brown-Red
Pair10:Gray-Red Pair11:Blue-Black Pair12:Orange-Black
Pair13:Green-Black Pair14:Brown-Black Pair15:Gray-Black
Pair16:Blue-Yellow Pair17:Orange-Yellow Pair18:Green-Yellow
Pair19:Brown-Yellow Pair20:Gray-Yellow Pair21:Blue-Violet
Pair22:Orange-Violet Pair23:Green-Violet Pair24:Brown-Violet
Pair25:Gray-Violet

Mechanical Characteristics

Test Object	Jacket
Test Material	LLDPE
Before Tensile Strength (Mpa)	>=13.8
Aging Elongation (%)	>=100
Aging Condition (°Cxhrs)	100x168
After Tensile Strength (Mpa)	>=85% of unaged
Aging Elongation (%)	>=50% of unaged
Cold Bend (-20±2° Cx4hrs)	No Crack

Marking on Jacket

VERTICAL 4001453 cETLus VERIFIED UTP 25PR 24AWG OUTDOOR DIRECT BURIAL (FLOODED) UV LLDPE CAT5E 350MHz TIA/EIA-568B.2 RoHS (SEQUENTIAL FOOT MARKERS ON JACKET)

Jacket color available in
Black



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Rev. 03/2011
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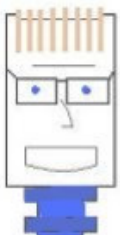
PERFORMANCE

Electrical Characteristics:

1.0-100MHz Impedance (Ohms)	100±15
1.0-100.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	95
Resistance Unbalance (%)	<=5

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max (dB/100m)	Next (Min dB)
0.772	16.7	1.8	64.0
1	17.0	2.0	62.3
4	18.8	4.1	53.3
8	19.7	5.8	48.8
10	20.0	6.5	47.3
16	20.0	8.2	44.3
20	20.0	9.3	42.8
25	19.3	10.4	41.3
31.25	18.6	11.7	39.9
62.5	16.5	17.0	35.4
100	15.1	22.0	32.3

Frequency (Mhz)	PSNext (Min dB)	ELFEXT Min(dB/100m)	Delay Max(ns/100m)
0.772	64.0	63.0	574.0
1	62.3	60.8	570.0
4	53.3	48.7	552.0
8	48.8	42.7	546.0
10	47.3	40.8	545.0
16	44.3	36.7	543.0
20	42.8	34.7	542.0
25	41.3	32.8	541.0
31.25	39.9	30.9	540.0
62.5	35.4	24.8	538.0
100	32.3	20.8	537.0



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