

CATEGORY 5E DIRECT BURIAL



Description:

CMX Direct Burial, With Water Proof Tape Layer, Premise Horizontal Cable, 4 Pair UTP, 350MHz Category 5E, HDPE Insulation, Riser Rated, 24AWG Solid Bare Copper, HDPE Insulation, Sequential Marking at One (or Two) Foot Intervals.

Physical Characteristics:

Conductor:

Conductor Material	Bare Copper
Thickness	24AWG
Stranding	Solid
Number of Pairs	4
Total Number of Conductors	8

Insulation:

Insulation Material	HDPE (High Density Polyethylene)
Min. Thickness	0.20mm
Average Thickness	0.21mm
Diameter	0.93 ± 0.05mm

Pair Color Code Chart:

1. Blue, White/Blue	2. Orange, White/Orange
3. Green, White/Green	4. Brown, White/Brown

Shielded:

Pair Twist	2 Corews Twist in Varied Lays
Assembly Twist	4 Pair Cables Together
AL-Mylar	Approx. 0.06mm Thick (AL side in)
Nom-Woven Tape	Approx. 0.2mm Thick

Outer Jacket:

Outer Jacket Material	FR-PE
Outer Jacket Ripcord	According to Customer Request
Min. Thickness	0.52mm
Average Thickness	0.58mm
Overall Nominal Diameter	5.60 ± 0.10mm
Jacket Color:	According to Customer Request

Mechanical Characteristics:

Operating Temperature Range	-20 °C to +60 °C
Bulk Cable Weight	23 lbs./1000ft
Max. Recommended Pulling Tension	25lbs.
Min. Bend Radius (Install)	1 Inch

Applicable Specifications & Agency Compliance:

Standards:

NEC/(UL) Specification	CMX-Direct Burial, UL 444
IEC Specification	ISO/IEC 11801 Category 5e
TIA/EIA Specification	ANSI-TIA/EIA 568B.2 Category 5e

Flame Test:

UL Flame Test	CMX, UL 1666 Riser
C(UL) Flame Test	CMX
CSA Flame Test	FT4

Electrical Characteristics:

Rating	60°C 300V
Conductor Resistance	Max. 92.8 Ohm/Km at 20°C
Potential Withdraw	DC 500V/1min or AC 350V/1min
Insulation Resistance	1500MΩ/km DC 500V(between wire and ground)
Spark Test	2.5 KV
DC Resistance Unbalance	5% Max.
Pair-to-Ground Capacitance Unbalance	Max. 3300pF/km (1KHZ pair to ground)
Insulation Shrinkback	150mm 121±1°C HR≤9.5mm
Cold Bend Test	-20°C 4 Hours No Cracking
AC Leakage Current Through Overall Jacket	AC 1500V ≤10mA
Structural Return Loss	350MHz Min 16.0dB
Characteristic Impedance	1~350MHz 100±15 Ohm
Propagation Delay	350MHz Max 536ns/100m
Delay Skew	1~350MHz Max 30ns/100m
Max. Operating Voltage, UL	300V RMS

Insulation	Unaged	Tensile Strength	3000psi
		Elongation	400%
	Aged	Tensile Strength	2600psi (100°C for 48 hours)
		Elongation	350% (100°C for 48 hours)
Jacket	Unaged	Tensile Strength	2100psi
		Elongation	200%
	Aged	Tensile Strength	1850psi (100°C for 48 hours)
		Elongation	175% (100°C for 48 hours)

Electrical Characteristics:

Frequency (MHz)	Max. Attenuation (db/100m)	Min. NEXT (db)	Min.ACR (db)	Min. PSNEXT (db)	Min PSACR (db)	Min. Return Loss (db)	Min. PSELFEXT (db)	Min. ELFEXT (db)
1	2.0	75.3	73.3	73.3	71.3	20.0	64.8	67.8
4	3.8	66.3	62.5	64.3	60.5	23.0	52.7	55.7
8	5.4	61.8	56.4	59.8	54.4	24.5	46.7	49.7
10	6.0	60.3	54.3	58.3	52.3	25.0	44.8	47.8
16	7.6	57.3	49.7	55.3	47.7	25.0	40.7	43.7
20	8.5	55.8	47.3	53.8	45.3	25.0	38.7	41.7
25	9.6	54.3	44.8	52.3	42.7	24.3	36.8	39.8
31.25	10.7	52.9	42.2	50.9	40.2	23.6	34.9	37.9
62.5	15.5	48.4	32.9	46.4	30.9	21.5	28.8	31.8
100	19.9	45.3	25.4	43.3	23.4	20.1	24.8	27.8
155	25.3	42.5	17.2	40.5	15.2	18.8	20.9	23.9
200	29.2	40.8	11.6	38.8	9.6	18.0	18.7	21.7
250	33.0	39.3	6.3	37.3	4.3	17.3	16.8	19.8
300	36.6	38.2	1.6	36.2	0	16.8	15.2	18.2
350	43.2	36.3	N/A	34.3	N/A	15.9	12.7	15.7

Packaging:

Easy Pull Box

Jacket Marking:

TRT E224758 (UL) C(UL) CMX UTP 4PR 24AWG VERIFIED DIRECT BURIAL CAT5E 350MHZ TIA/EIA-568B.2 STANDARD FT4 ETL CMR VERIFIED 999FT..... TO 001FT

Note:

Applications: Ultra High performance LAN cable suitable for Audio Data, Video Transfer for outdoor network applications. (Industrial Ethernet, Harsh Environments, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Video, RS-422, Noisy Environment, RJ45 Compatible, CMX-Outdoor).

Ordering Information:

CAT 5E OUTDOO/DIRECT BURIAL BULK CABLE	
ITEM #	ITEM DESCRIPTION
K5E-1KUTP-CMX	CAT-5E 350MHz, Cable, 24AWG, UTP, 4 Pairs, Solid, 1000', UV Jacket for Outdoor Use, (CMX) Cable, Black
K5E-1KUTP-CMXF	CAT-5E 350MHz, Cable, 24AWG, UTP, 4 Pairs, Solid, 1000', Outdoor Aerial/Duct Cable, Flooded Core, Direct Burial, FRPE Jacket, (CMX) Cable, Pull Box, Black
K5E-1KUTP-CMXT	CAT-5E 350MHz, Cable, 24AWG, UTP, 4 Pairs, Solid, 1000', Outdoor Aerial/Duct Cable, Mylar Foil & Water Proof Tape, FRPE Jacket, Direct Burial, (CMX) Cable, Pull Box, Black