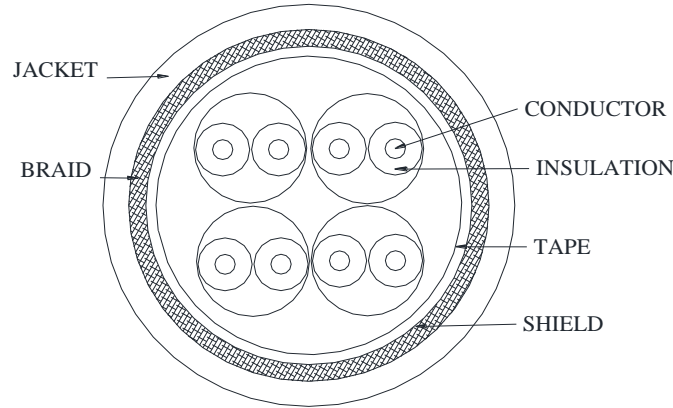


Category 5e Industrial Ethernet



1. Construction:

- 1.1. Conductors: 24 AWG Solid Bare Copper
- 1.2. Insulation: Polyethylene Nom Diameter 0.044"
- 1.3. Pair Assembly: Conductors Twisted to Varying Lays
- 1.4. Cable Assembly: 4 Pairs Cabled To Form Round Core
- 1.5. Tape: Polyester 25% Overlap Nom.
- 1.6. Shield: Aluminum/Polyester
- 1.7. Braid: 60% Tinned Copper Braid
- 1.8. Jacket: UV Resistant PVC Nom OD = 0.265"

3. Compliance:

- 3.1. UL Subject 444 Communications Cables
- 3.2. UL 1666 Riser Flame Test
- 3.3. NEC Article 800
- 3.4. UL Type CMX Outdoor – CMR
- 3.5. ICEA S-90-661
- 3.6. California State Fire Marshal
- 3.7. RoHS Compliant

1.9. JACKET PRINT:

COMTRAN CABLE LLC CAT 5e 24 AWG CMX
 OUTDOOR – CMR C(UL)US ETL VERIFIED TO
 ANSI/TIA-568- C.2 CATEGORY 5e RoHS (01-12345)
 XXXXXX FEET

01-12345 = Traceability Code
 XXXXXX = Sequential Footage

2. Physical Characteristics:

- 2.1. Nominal Cable Weight: 50.0lbs./1,000 ft.
- 2.2. Min. Bend Radius: 1.5 Inches
- 2.3. Put-ups: 15,000 +/- 10%
- 2.4. Shorts: 20% of Total Footage
- 2.5. Min Length : 1600 feet

4. Category Electrical Performance:

- 4.1. Voltage Rating: 300V
- 4.2. Max. DC Resistance: 9.38Ω/100m
- 4.3. Max DC Resistance Unbalance: 5.0%
- 4.4. Nominal Velocity of Propagation: 68%
- 4.5. Max Propagation Delay Skew: 45 ns/100m
- 4.6. Min. Insulation Resistance: 4.5 G Ω/km
- 4.7. Insulation Dielectric Strength: 2500V/Per 2 Sec

TITLE:		DESCRIPTION	Comtran Cable LLC 330A Turner Street South Attleboro, MA 02703 Phone: 508-399-7004 Fax: 508-399-8839		 <small>A Marmor Wire & Cable/Berkshire Hathaway Company</small>
35955		4 Pair 24 AWG Solid Bare Copper Category 5e Shielded CMX Outdoor - CMR			
Rev	Date	Detail	Eng.	App.	
7	4/10/17	New Format	BAL	RN	

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Category 5e Industrial Ethernet



Category 5e Electricals

(Per ANSI/TIA 568-C.2)

Freq.	Return Loss	Attenuation	NEXT	PSNEXT	ACRF	PSACRF
(MHz.)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
1	20	2	65.3	62.3	63.8	60.8
4	23	4.1	56.3	53.3	51.7	48.7
8	24.5	5.8	51.8	48.8	45.7	42.7
10	25	6.5	50.3	47.3	43.8	40.8
16	25	8.2	47.3	44.3	39.7	36.7
20	25	9.3	45.8	42.8	37.7	34.7
25	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17	38.4	35.4	27.8	24.8
100	20.1	22	35.3	32.3	23.8	20.8

Category Color Code

Color Code	
Pair 1	Blue-White/Blue
Pair 2	Orange-White/Orange
Pair 3	Green-White/Green
Pair 4	Brown-White/Brown

TITLE:		DESCRIPTION		Comtran Cable LLC 330A Turner Street South Attleboro, MA 02703 Phone: 508-399-7004 Fax: 508-399-8839		 	
35955		4 Pair 24 AWG Solid Bare Copper Category 5e Shielded CMX Outdoor - CMR					
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