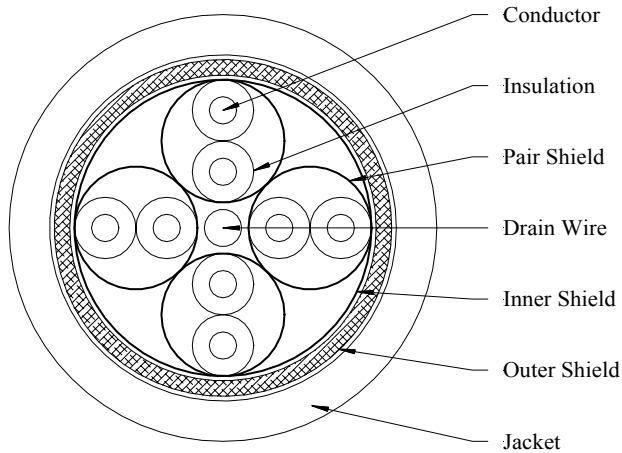


4 PAIR 26 AWG CATEGORY 5 TYPE* CABLE



CONSTRUCTION

Pair Component

Conductor: 26 AWG 7/34 Tin Plated Copper, 0.019 Inch Diameter
Insulation: 0.012 Inches of Foam Polyethylene, 0.043 Inch Diameter
Pair: 2 Insulated Conductors Twisted Together, Lay Lengths Varied Between Pairs to Minimize Crosstalk
Pair Shield: Aluminum/Polyester Tape, Aluminum Side Facing Out, 25% Overlap

Final Assembly

Core: 26 AWG 7/34 Tin Plated Copper Drain Wire, 0.019 Inch Diameter
Layer #1: 4 Pairs (#1-4) Cabled Around Core
Inner Shield: Aluminum/Polyester Tape, Aluminum Side Facing out, 25% Overlap
Outer Shield: 36 AWG Tin Plated Copper Braid, 65% Coverage
Jacket: 0.032 Inches of XPbT, Color – White
Diameter: 0.270 Inches Nominal
Print Legend (Black Ink): “(UL) TYPE CM 75°C 26 AWG MADISON CABLE
 C(UL) TYPE CMG 75°C – CATEGORY 5 TYPE RoHS COMPLIANT
 {Date Code}¹”

¹ Date Code is a 4-digit code with the first two digits identifying the calendar week and the last two identifying the calendar year of manufacturing. Example – 0206 for cable manufactured in the 2nd week of January 2006.

COLOR CODE

Pair #	Conductor #1	Conductor #2
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown

ELECTRICAL CHARACTERISTICS

Frequency (MHz)	Attenuation ² dB/100m (Nom)	NEXT ³ dB (Nom)	PSNEXT ⁴ dB (Nom)	SRL ⁵ dB (Nom)
0.772	2.7	64	64	
1	3.0	62.3	62.3	23.0
4	6.2	53.3	53.3	23.0
8	8.7	48.8	48.8	23.0
10	9.8	47.3	47.3	23.0
16	12.3	44.3	44.3	23.0
20	14.0	42.8	42.8	23.0
25	15.6	41.3	41.3	22.0
31.25	17.5	39.9	39.9	21.1
62.5	25.5	35.4	35.4	18.1
100	33.0	32.3	32.3	16.0

² Values shown are examples. Attenuation at any frequency between 0.772 and 100 MHz is $1.5(1.967\sqrt{f}/0.023 \text{ ft } 0.050/\sqrt{f})$ dB/100 meter Maximum, where f is frequency in MHz and measurement is on a length ≥ 100 meters.

³ Values shown are examples. NEXT at any frequency between 0.772 and 100 MHz is $32.3 - 15 \text{ Log}_{10}(f/100)$ dB Minimum, where f is frequency in MHz and measurement is on a length ≥ 100 meters.

⁴ Values shown are examples. Power Sum NEXT at any frequency between 0.772 and 100 MHz is $32.3 - 15 \text{ Log}_{10}(f/100)$ dB Minimum, where f is frequency in MHz and measurement is on a length ≥ 100 meters. Power Sum Crosstalk is defined as total energy that a pair receives when all other pairs are energized.

⁵ Values shown from 1-100 MHz are examples. Structural Return Loss at any frequency between 1 and 20 to 23 dB Minimum, between 20 and 100 MHz is $-16-10\text{Log}(f/100)$ Minimum, where f is frequency in MHz and measurement is on a length ≥ 100 meters.

Impedance⁶: 100 ± 15 Ohms

Pair-to-Ground Capacitance Unbalance: 330 pF/100 m Maximum @ 1 kHz

Velocity of Propagation: 75% Nominal

Time Delay Skew: 45 ns/100 m Maximum from 1 – 100 MHz

Conductor DC Resistance: 14.0 Ohms/100 m Maximum @ 20°C

Conductor DC Resistance Unbalance: 5% Maximum

⁶ An Impedance-Like Function Fit to Data By Least Square Method, Meets this Requirement.

SAFETY CERTIFICATION

UL Listing: Type CM as specified in Article 800 of the National Electrical Code

C(UL) Listing: Type CMG as specified in Article 800 of the National Electrical Code

RoHS Compliance: In Accordance to European Directive 2002/95/EC, Issue

13.2.2003

* Note: Type designation indicates that this design is consistent with the applicable standard, but may not be in full compliance.



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Spec Number: 101-6738

Part Number: 08CEOLF004

Customer:

Customer #:

REVISION HISTORY

1	08/24/07	KA	Initial Release
2	04/21/08	HA	Added P/N
3	05/01/08	HA	Revised Safety Cert., Jkt Color and Print Legend

Prepared By: H. Abusamra

Reviewed By: K. Nippani

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Page

1 of 1

Users should evaluate the suitability of this product for their application. Contact factory for latest revision of specification. Tyco Electronics reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to the Buyer.