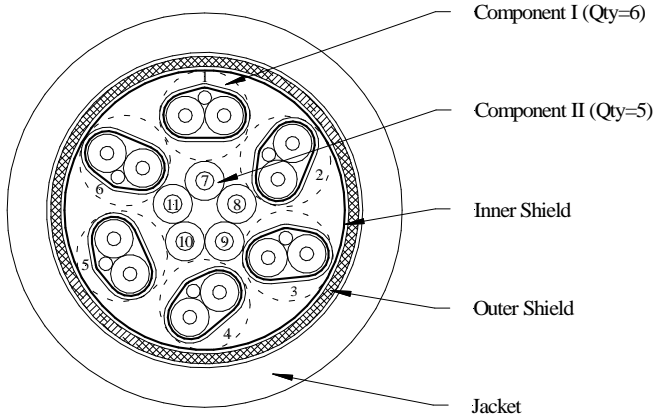


6 PAIR 32 AWG + 5 CONDUCTOR 32 AWG COMPOSITE INFINITWIST™ CABLE

DPROPRIETARY DESIGN

THIS CONFIDENTIAL DOCUMENT HAS BEEN RELEASED WITH THE UNDERSTANDING THAT IT SHALL NOT BE SENT TO ANYONE OTHER THAN THE ORIGINAL INTENDED RECIPIENT WITHOUT PRIOR AUTHORIZATION FROM TE CONNECTIVITY/MADISON CABLE



CONSTRUCTION

Component I – 32 AWG Pairs

Conductor: 32 AWG Solid Silver Plated Copper, 0.008 Inch [0.20 mm] Diameter
Insulation: 0.007 Inches [0.18 mm] of Polyolefin, 0.022 Inch [0.56 mm] Diameter
Pair: 2 Insulated Conductors Twisted Together
Drain Wire: 32 AWG Solid Tin Plated Copper, 0.008 Inch [0.20 mm] Diameter
Pair Shield: Aluminum/Polyester Tape, Aluminum Side Facing In, 25% Overlap
Pair Jacket: Polyester Tape

Component II – 32 AWG Singles

Conductor: 32 AWG 7/40 Tin Plated Copper, 0.0093 Inch [0.24 mm] Diameter
Insulation: 0.0053 Inches [0.13 mm] of Polyolefin, 0.020 Inch [0.51 mm] Diameter

Final Assembly

Core: 5 Component II (#7-11) Cabled Together
Layer 1: 6 Component I (#1-6) Cabled Around Core
Inner Shield: Aluminum/Polyester Tape, Aluminum Side Facing Out, 25% Overlap
Outer Shield: 42 AWG Tin Copper Braid, 85% Coverage
Jacket: 0.022 Inches [0.56 mm] of Flexible PVC, Color – Black
Diameter: 0.200 ± 0.008 Inches [5.08 ± 0.20 mm]

Print Legend (White Ink): “TE CONNECTIVITY E47891 {Mfg. Location Code}”
 AWM STYLE 20276 80°C 30V VW-1 SUBSTANCE COMPLIANT 2011/65/EU”

¹ Manufacturing Location Code, if applicable.



Madison Cable

125 Goddard Memorial Drive
 Worcester, MA 01603 USA
 (508) 752-2884 (877) MADISON

COLOR CODE

Comp. #	Comp.	Conductor #1	Conductor #2	Pair Shield Color
1	I	Natural	Green	Yellow
2	I	Natural	Green	Red
3	I	Natural	Green	Violet
4	I	Natural	Green	Orange
5	I	Natural	Green	Blue
6	I	Natural	Green	White
7	II	Red		
8	II	Black		
9	II	Green		
10	II	Blue		
11	II	Yellow		

ELECTRICAL CHARACTERISTICS

Component I – 32 AWG Pairs

Differential Impedance: 87.5 ± 5 Ohms @ TDR

Time Delay: 1.55 ns/ft [5.1 ns/m] Nominal

Time Delay Skew (Within Pair): 15 ps/m Maximum

Attenuation²:

Frequency (GHz)	Attenuation (dB/4 m Maximum)
1.25	10.3
2.5	14.8
5.0	21.9
7.5	27.9

Differential to Common Mode Conversion (SCD21)²: 23 dB Minimum

Conductor DC Resistance: 0.16 Ohms/ft [0.53 Ohms/m] Nominal @ 20°C

² Test/Functional to 7.5 GHz over 4 m length

Component II – 32 AWG Singles

Conductor DC Resistance: 0.16 Ohms/ft [0.52 Ohms/m] Nominal @ 20°C

SAFETY CERTIFICATION

UL Recognized: AWM Style 20276 80°C 30 Volts VW-1

RoHS II Material Compliance: In accordance with EU Directive 2011/65/EU for the Restriction of Hazardous Substances

REVISION HISTORY

1	08/14/13	HA	Initial Release
2	09/16/14	CZ	Deleted Fillers, Revised Color/Legend/Skew/IL

Spec Number: 102-2748

Part Number: 17ZASLF001

Customer:

Customer #:

Prepared By: H. Abusamra

Reviewed By: N. Zhang

Page

1 of 1

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