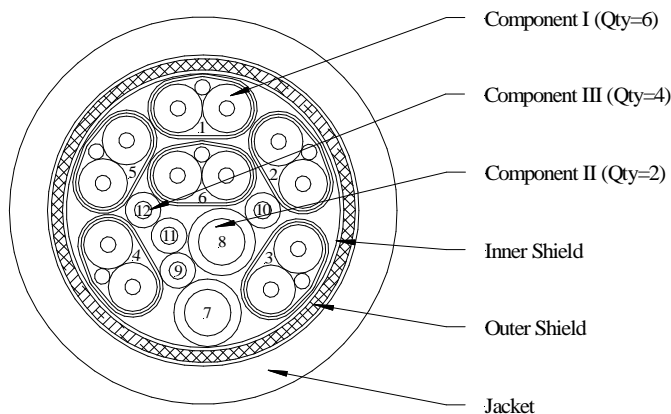


2 CONDUCTOR 24 AWG + 4 CONDUCTOR 32 AWG + 6 PAIR 32 AWG COMPOSITE CABLE

PROPRIETARY 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 Bare Copper, 0.008 Inch [0.20 mm] Diameter

Insulation: 0.0090 Inches [0.23 mm] of Polyethylene, 0.026 Inch [0.66 mm] Diameter

Pair: 2 Insulated Conductors Laid Flat and Parallel

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, Color – Yellow

Pair Jacket: Polyester Tape

Pair Diameter: 0.0346 x 0.0591 Inches [0.88 x 1.50 mm] Nominal

Pair Identification: Pairs sequentially numbered on entire length of pair

Component II – 24 AWG Singles

Conductor: 24 AWG 7/32 Tin Plated Copper, 0.024 Inch [0.61 mm] Diameter

Insulation: 0.0060 Inches [0.15 mm] of Semi-Rigid PVC, 0.036 Inch [0.91 mm] Diameter

Component III – 32 AWG Singles

Conductor: 32 AWG Solid Tin Plated Copper, 0.008 Inch [0.20 mm] Diameter

Insulation: 0.0055 Inches [0.14 mm] of Semi-Rigid PVC, 0.019 Inch [0.48 mm] Diameter

Final Assembly

Core: 1 Component I (#6), 1 Component II (#8) and 3 Component III (#10-12) Cabled Together

Layer 1: 5 Component I (#1-5), 1 Component II (#7) and 1 Component III (#9) Cabled Around Core

Inner Shield: Aluminum/Polyester Tape, Aluminum Side Facing Out, 25% Overlap

Outer Shield: 40 AWG Tin Plated Copper Braid, 90% Coverage Minimum

Jacket: 0.026 Inches [0.65 mm] of PVC, Color – Black

Diameter: 0.205 ± 0.008 Inches [5.20 ± 0.20 mm]

Print Legend (Gray Ink): “MADE IN CHINA --- TE CONNECTIVITY E47891

{Mfg. Location Code}¹ AWM STYLE 20276 80°C 30V VW-1 --- SUBSTANCE COMPLIANT 2011/65/EU”

¹ Manufacturing Location Code, if applicable.

COLOR CODE

Component #	Component	Conductor #1	Conductor #2
1	I	Natural	Natural
2	I	Natural	Natural
3	I	Natural	Natural
4	I	Natural	Natural
5	I	Natural	Natural
6	I	Natural	Natural
7	II	White	
8	II	Black	
9	III	Brown	
10	III	Red	
11	III	Orange	
12	III	Yellow	



Madison Cable

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

REVISION HISTORY

1	07/16/13	SJ	Initial Release
2	08/12/13	DC	Revised Comp III Qty; Added Filler; et. al.
3	11/05/13	DC	Revised Comp I OD; Jacket wall, OD
4	12/04/13	DC	Revised Comp I Cond; Shield #2
5	01/13/14	DC	Revised Print Legend and Color
6	12/18/14	CZ	Revised 32# Singles, Shield, OD, Legend; et. al.

Spec Number: 102-2718

Part Number: 18ZZSLF021

Customer:

Customer #:

Prepared By: D.M. Card

Reviewed By: N. Zhang

Page

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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.

2 CONDUCTOR 24 AWG + 4 CONDUCTOR 32 AWG + 6 PAIR 32 AWG COMPOSITE CABLE

ELECTRICAL CHARACTERISTICS

Component I – 32 AWG Pairs

Differential Impedance: 100 ± 5 Ohms @ TDR

Time Delay: 1.55 ns/ft [5.09 ns/m] Nominal

Time Delay Skew (Within Pair): 10 ps/m Maximum

Attenuation²:

Frequency (GHz)	Attenuation (dB/3m Maximum)
1	6.1
2	8.4
5	13.5
6.25	14.5
10	21.4

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

Conductor DC Resistance: 0.16 Ohms/ft [520 Ohms/km] Nominal @ 20°C

² Test/Functional to 10 GHz over 3 m length

Component II – 24 AWG Singles

Conductor DC Resistance: 0.024 Ohms/ft [80 Ohms/km] Nominal @ 20°C

Component III – 32 AWG Singles

Conductor DC Resistance: 0.16 Ohms/ft [520 Ohms/km] 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 of Hazardous Substances



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