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ionductor: 26 AWG Solid Tin Plated Copper, 0.0159 Inch Diameter sublation: 0.006 Inches of Polypropylene, 0.028 Inch Diameter air', 2 Insulated Conductors Twisted Together, Lay Lengths Varied Between Pairs to Minimize Crosstalk Tight Twist (Data) lay lengths are used in order to meet Telecom Industry Standards. Tight Twist (Data) lay lengths are used in order to meet Telecom Industry Standards. Tight Twist (Data) lay lengths are used in order to meet Telecom Industry Standards. Tight Twist (Data) lay lengths are used in order to meet Telecom Industry Standards. Tinal Assembly Over: 3 Pairs (#1-3) Cabled Together ayer 2: 13 Pairs (#1-2) Cabled Around Core ayer 1: 9 Pairs (#1-3) Cabled Together ayer 2: 13 Pairs (#1-3) Cabled Around Layer 1 inder: Polyset Tape, 50% Overlap acket: 0.0275 Inches of PVC, Color - Telephone Gray ² inanter: 0.380 Inches Nominal rint Legend (Black Ink): "MADISON CABLE (Mfg Location Code) ³ (UL) TYPE COMPLIANT (Date Code) ⁱⁿ Per ANSI/EIA-359-A N5/ Manufacturing Location Code, if applicable. Date Code is a 6-digit code with the first two digits identifying the calendar day, the middle or digits identifying the calendar pair <t< td=""><td>Black</td></t<>	Black			
14 Black/Brown Brown/A Fight Twist (Data) lay lengths are used in order to meet Telecom Industry 15 Black/Gray Gray/B Inal Assembly 16 Yellow/Blue Blue/Ye Inal Assembly 16 Yellow/Blue Blue/Ye Inal Assembly 16 Yellow/Blue Blue/Ye Inar Assembly 16 Yellow/Orange Orange/A Inar Assembly 17 Yellow/Orange Orange/A Inder: Polyester Tape, 50% Overlap 18 Yellow/Brown Brown/Y Inarter: 0.380 Inches Nominal Trint Legend (Black Ink): "MADISON CABLE [Mfg Location Code] ³ (UL) TYPE 20 Yellow/Gray Gray/Ye Per ANSI/EIA-359-A N5/ Solder Code is a 6-digit code with the first two digits identifying the calendar month and the last two identifying	Black			
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inal Assembly Image: Second Core Image: Second Core ayer: 1: 9 Pairs (#1-12) Cabled Around Core Image: Second Core Image: Second Core ayer: 1: 9 Pairs (#1-12) Cabled Around Layer 1 Image: Second Core Image: Second Core inder: Polyester Tape, 50% Overlap Image: Second Core Image: Second Core pare: 1: 19 pairs (#1-2) Cabled Around Layer 1 Image: Second Core Image: Second Core inder: Polyester Tape, 50% Overlap Image: Second Core Image: Second Core prime: Sol Oxfors Norminal Image: Second Core Image: Second Core rimet: Logend (Black Ink): "MADISON CABLE {Mfg Location Code} 3 (UL) TYPE CMR 75°C 26 AWG CSA TYPE CMG 60°C MS# 101-9467 RoHS Image: Second Core 'Per ANSI/EIA-359-A N5/ Manufacturing Location Code, if applicable. Date Code is a 6-digit code with the first two digits identifying the calendar day, the middle two digits identifying the calendar month and the last two identifying the calendar year of manufacturing. Example: 04/05/95 for cable manufactured on May 4, 1995. Image: Second Core Image: Second Core 125 Goddard Memorial Drive Worcester, MA 01603 USA (508) 752-2884 (877) MADISON Image: Second Core Image: Second Core 12 01/29/10 DC Added Cust, Name; Made Proprieta Image: Second Core 12 01/29/10 DC Added Cust,	Gray/Black			
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ayer 2: 13 Pairs (#13-25) Cabled Around Layer 1 18 Yellow/Green Green/Y inde:: Polyester Tape, 50% Overlap 9 Yellow/Green Green/Y rain Wire: 26 AWG Solid Tin Plated Copper, 0.0159 Inch Diameter 19 Yellow/Green Brown/Y inde:: Polyester Tape, 50% Overlap 20 Yellow/Gray Gray/Ye inameter: 0.380 Inches Nominal 19 Yellow/Gray Gray/Ye 20 Yellow/Gray Gray/Ye 21 Violet/Blue Blue/V 22 Violet/Orange Orange/Ye 23 Violet/Orange Orange/Ye 24 Violet/Green Green/Y 25 Violet/Green Green/Y 24 Violet/Green Green/Y 25 Violet/Green Green/Y 24 Violet/Green Green/Y 25 Violet/Gray Gray/V 25 Violet/Gray Gray/V 26 01/15/10 HA Initial Release 2 01/29/10 DC Added Cust. Name; Made Proprietat 3 04/05/10 RL Added Cust. Name; Made Prop	'ellow			
Train Wire: 26 AWG Solid Tin Plated Copper, 0.0159 Inch Diameter hield: Aluminum/Polyester Tape, Aluminum Side Facing In, 25% Overlap acket: 0.0275 Inches of PVC, Color – Telephone Gray ² Jiameter: 0.380 Inches Nominal Trint Legend (Black Ink): "MADISON CABLE {Mfg Location Code}] ³ (UL) TYPE CMR 75% C2 AWG CSA TYPE CMG 60°C MS# 101-9467 RoHS COMPLIANT {Date Code} ⁴ ". *Per ANSI/EIA-359-A N5/ Manufacturing Location Code, if applicable. Date Code is a 6-digit code with the first two digits identifying the calendar day, the middle two digits identifying the calendar month and the last two identifying the calendar year of manufacturing. Example: 04/05/95 for cable manufactured on May 4, 1995. Madison Cable 125 Goddard Memorial Drive Worcester, MA 01603 USA (508) 752-2884 (877) MADISON Madison Cable 125 Goddard Memorial Drive Worcester, MA 01603 USA (508) 752-2884 (877) MADISON 4 10/19/12 SJ Revised Jacket Wall/OD	Green/Yellow			
Diameter: 0.380 Inches Nominal 20 Yellow/Gray Gray/Yellow/Gray rint Legend (Black Ink): "MADISON CABLE {Mfg Location Code] ³ (UL) TYPE CMR 75°C 26 AWG CSA TYPE CMG 60°C MS# 101-9467 RoHS COMPLIANT {Date Code} ⁴ ". 21 Violet/Blue Blue/V Per ANSI/EIA-359-A N5/ Manufacturing Location Code, if applicable. 22 Violet/Orange Orange/V Date Code is a 6-digit code with the first two digits identifying the calendar day, the middle two digits identifying the calendar day, the calendar year of manufacturing. Example: 04/05/95 for cable manufactured on May 4, 1995. 23 Violet/Brown Brown/V 25 Violet/Gray Gray/V Madison Cable 125 Goddard Memorial Drive Worcester, MA 01603 USA (508) 752-2884 (877) MADISON 101/15/10 HA Initial Release 2 01/29/10 DC Added Cust. Name; Made Proprietar 3 04/05/10 RL Added Cust. Name; Made Proprietar	ellow			
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Manufacturing Location Code, if applicable. 23 Violet/Green Green/V Date Code is a 6-digit code with the first two digits identifying the calendar month and the last two identifying the calendar year of manufacturing. Example: 04/05/95 for cable manufactured on May 4, 1995. 24 Violet/Brown Brown/V 25 Violet/Gray Gray/V REVISION Historer 1 01/15/10 HA Initial Release 2 01/29/10 DC Added Type to Description; Added 1 3 04/05/10 RL Added Cust. Name; Made Proprietar 4 10/19/12 SJ Revised Jacket Wall/OD	Violet			
the middle two digits identifying the calendar month and the last two identifying the calendar year of manufacturing. Example: 04/05/95 for cable manufactured on May 4, 1995. Madison Cable 125 Goddard Memorial Drive Worcester, MA 01603 USA (508) 752-2884 (877) MADISON 24 Violet/Brown Brown/V 25 Violet/Gray Gray/V 1 01/15/10 HA Initial Release 2 01/29/10 DC Added Type to Description; Added I 3 04/05/10 RL Added Cust. Name; Made Proprietar 4 10/19/12 SJ Revised Jacket Wall/OD	Green/Violet			
Madison Cable Second connectivity Revision History 125 Goddard Memorial Drive 1 01/15/10 HA Initial Release 2 01/29/10 DC Added Type to Description; Added I 3 04/05/10 RL Added Cust. Name; Made Proprietar 4 10/19/12 SJ Revised Jacket Wall/OD	/iolet			
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4 10/19/12 SJ Revised Jacket Wall/OD				
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Spec Number: 101-9467				
Part Number: 50SEJLF005				
Customer: Alcatel Prepared By: S. Jonna	Pag			

 Customer #:
 1 AC012270003 (For Reference Only)
 Reviewed By:
 H. Themistocle
 M. Dupuis
 1 of 2

 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
 H. Themistocle
 M. Dupuis
 1 of 2

25 PAIR 26 AWG CAT 5E TYPE CABLE

ELECTRICAL CHARACTERISTICS⁵

Frequency	Impedance ⁶	\mathbf{RL}^7	Attenuation
<u>(MHz)</u>	(Ohms)	(dB Min.)	<u>(dB/100 m Max.)</u>
1	100 ± 15	20.0	3.2
4	100 ± 15	23.0	6.6
8	100 ± 15	25.0	9.4
10	100 ± 15	25.0	10.9
16	100 ± 15	25.0	13.5
20	100 ± 15	25.0	15.4
25	100 ± 15	24.3	17.4
31.25	100 ± 15	23.6	19.7
62.5	100 ± 15	21.5	29.1
100	100 ± 15	20.1	38.3
F	PSNEXT	8	PSELFEXT ⁹
Frequency	(dB Min.)		(dB Min)
<u>(MHz)</u> 1	<u>(dB Mili.)</u> 62.3	<u> </u>	<u>(dB Mill)</u> 60.8
4	53.3		48.8
8	48.8		42.7
10	47.3		40.8
16	44.2		36.7
20	42.8		34.8
25	41.3		32.8
31.25	39.9		30.9
62.5	35.4		24.9
100	32.3		20.8
 ⁶ An Impedance-L requirement. ⁷ Values shown fr frequency between 		mples. Return Loss $+ 5 \log_{10}(f) dB M$	
	ef is the frequency in N		ent is on a 25 feet length.

RL is Return Loss measured in accordance with ANSI/TIA/EIA-568-C.2.

⁸ Values shown are examples. Power Sum NEXT at any frequency between 1 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 25 feet length. Power Sum Crosstalk is defined as total energy that a pair receives when all other pairs are energized.

⁹ Values shown are examples. Power Sum ELFEXT at any frequency between 1 and 100 MHz is $20.8 - 20 \log_{10}(f/100)$ dB Minimum, where *f* is frequency in MHz and measurement is on a 25 feet length.

Mutual Capacitance: 7.0 nF/100 m Maximum @ 1 kHz

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

Voltage Withstand: 1000 VAC for 1 Minute

Conductor DC Resistance: 14.8 Ohms/100 m Maximum @ 20°C

Conductor DC Resistance Unbalance: 5% Maximum

PHYSICAL CHARARTERISTICS

Maximum Long Term Operational Temperature Rating: +75°C Minimum Static Temperature Rating: -40°C Minimum Dynamic Temperature Rating: -20°C

SAFETY CERTIFICATION

UL Listing: Type CMR as specified in Article 800 of the National Electrical Code **CSA Certification**: Type CMG

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.

	Madiaan Cabla	REVISION HISTORY							
-T	125 Goddard Memorial Drive		01/15/10	HA	Initial Release				
	worcester, MA 01605 USA	2	01/29/10	DC	Added Type to Description; Added Note				
connec		3	04/05/10	RL	Added Cust. Name; Made Proprietary				
		4	10/19/12	SJ	Revised Jacket	Wall/OD			
Spec Number:	101-9467								
Part Number:	50SEJLF005								
Customer:	Alcatel	Prep	Prepared By: S. Jonna		Page				
Customer #:	1 AC012270003 (For Reference Only)	Revi	ewed By:	H. Th	emistocle	M. Dupuis	2 of 2		
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.									
Form AP-03A Issue 10									