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LOW SMOKE ZERO HALOGEN (LSZH) INSULATION. ADVANTAGES OF LSZH INSULATION ARE THE LOW SMOKE (IEC 61034-2-2005) AND LOW TOXICITY OF COMBUSTION GASES (NF X 70-100-2-2006), REDUCING THE RISK TO FIREFIGHTERS AND REDUCING THE SOOT AND CORROSION DAMAGE TO NEARBY EQUIPMENT. 28 AWG WIRE ON .050 INCH CENTERS PERMITS MASS TERMINATION TO BROAD LINE OF IDC CONNECTORS.	<ul> <li>VI YO TH TH IN</li> <li>2</li> <li>4</li> <li>5</li> <li>5</li> <li>6</li> <li>7</li> <li></li></ul>	NOTES EGULATORY INFORMATION: ISIT 3M.com/regs OR CONTACT OUR 3M REPRESENTATIVE TO FIND HE ROHS COMPLIANCE STATUS OF HE 3M PART YOU ARE INTERESTED N. N THE EVENT OF CONFLICT ETWEEN THIS DATA AND THAT ONTAINED IN THE PRODUCT PECIFICATION, THE PRODUCT PECIFICATION TAKES PRECEDENT. LUE EDGE CONDUCTOR DESIGNATES IRE ONE OF PAIR ONE. TANDARD PRODUCT HAS A 2" FLAT N 19.7" REPEAT (SOMM BOND ON OOMM REPEAT). FOR SPECIAL EQUIREMENTS, PLEASE CONTACT OUR 3M SALES REPRESENTATIVE. HE FLAT CAN BE SPECIFIED NYTHING OVER 1" { 25MM }, THE EPEAT CAN BE SPECIFIED FROM .5" TO 48" { 16.5CM TO 1.2M ].	

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TABLE 1								
NO. OF CONDUCTORS	3M PART NUMBER	DIM. "A"	DIM. "B"					
10 (5 PAIR)	HF100/10TP	.50 [ 12.7 ]	.450+/010 [11.43]					
14 (7 PAIR)	HF100/14TP	.70 [ 17.8 ]	.650+/010 [15.88]					
16 (8 PAIR)	HF100/16TP	.80 [20.3]	.750+/010 [20.96]					
20 (10 PAIR)	HF100/20TP	1.00 [2.4]	.950+/010 [22.23]					
24 (12 PAIR)	HF100/24TP	1.20 [30.5]	1.150+/010 [24.77]					
26 (13 PAIR)	HF100/26TP	1.30 [33.0]	1.250+/010 [31.12]					
30 (15 PAIR)	HF100/30TP	1.50 [38.1]	1.450+/015 [36.80]					
34 (17 PAIR)	HF100/34TP	1.70 [43.2]	1.650+/015 [37.47]					
40 (20 PAIR)	HF100/40TP	2.00 [50.8]	1.950+/015 [42.55]					
50 (25 PAIR)	HF100/50TP	2.50 [ 63.5 ]	2.450+/015 [50.17]					
60 (32 PAIR)	HF100/60TP	3.00 [76.2]	2.950+/015 [62.87]					
64 (32 PAIR)	HF100/64TP	3.20 [81.3]	3.150+/015 [80.01]					

2	PHYSICAL:
	INSULATION:

MATERIAL: HALOGEN FREE POLYOLEFIN (PO) COLOR: BLUE / WHITE PAIRS

MARKING: STANDARD: NONE CANADIAN OPTION: SEE "PRINTING ILLUSTRATION" VIEW

CONDUCTORS: 28 AWG, 7 X 36 AWG [7 X  $\emptyset$ .127] TINNED STRANDED COPPER

ELECTRICAL : 2

VOLTAGE RATING: USA 150V CANADIAN 150V EU: <50V INSULATION RESISTANCE: >1 X 10<sup>10</sup>Ω/10ft. [3m]

UNBALANCED

CHARACTERISTIC IMPEDANCE: 1020 CAPACITANCE: 16.9 pF/ft [55.4 pF/m] INDUCTANCE: .18µH/ft [.59µH/m] PROPAGATION DELAY: 1.74 ns/ft [5.71 ns/m] 1.73 ns/ft [5.68 ns/m] VELOCITY OF PROPAGATION: 58%

BALANCED 119Ω 14.6 pF/ft [47.9 pF/m] .21µH/ft [.69µH/m] 59%

NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS. BALANCED IS MEASURED BETWEEN CONDUCTORS WITHIN A PAIR.

2 ENVIRONMENTAL:

TEMPERATURE RATING: -40°C TO +105°C (EIA-364-32G, METHOD A, TEST CONDITION 2) -15°C TO +105°C (UL TEMPERATÚE RATING)

FLAMMABILITY RATING: UL: HORIZONTAL

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HALOGEN FREE IS DEFINED AS BOTH 1) NO HALOGN COMPOUNDS THAT ARE INTENTIONALLY ADDED TO THE PRODUCT OR USED IN THE MANUFACTURING PROCESS FOR THE PRODUCT AND 2) ANY IMPURITIES PRESENT ARE LESS THAN 900ppm BROMINE, LESS THAN 900ppm CHLORINE AND/OR LESS THAN 1500ppm TOTAL BROMINE AND CHLORINE. THE LATTER ARE THE LEVELS SET FORTH IN CERTIAN INDUSTRY STANDARDS FOR PRINTED CIRCUIT BOARDS, SUCH AS THE INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) 61249-2-21 STANDARDS. THIS INFORMÁTION REPRESENTS 3M'S KNOWLEDGE AND BELIEF WHICH MAY BE BASED IN WHOLE OR IN PART ON INFORMATION PROVIDED BY 3RD PARTY SUPPLIERS TO 3M.

INCH [MM]							
TOLERANCE - UNLESS NOTED							
[INCH]	± . 1	±.005					
[] = DIM. FOR REFERENCE ONLY							

UL FILE NO: E42769, UL STYLE NO: 21008

CANADIAN OPTION "PRINTING ILLUSTRATION"

**FU**<sup>®</sup> AWM 21008 105°C 150V HOR

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AWM 1A 105°C 150V FT2 EU <50V



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	3M <sup>™</sup> TWISTED PA .050" 28 AWG STRANDED, MAS			SERIES
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