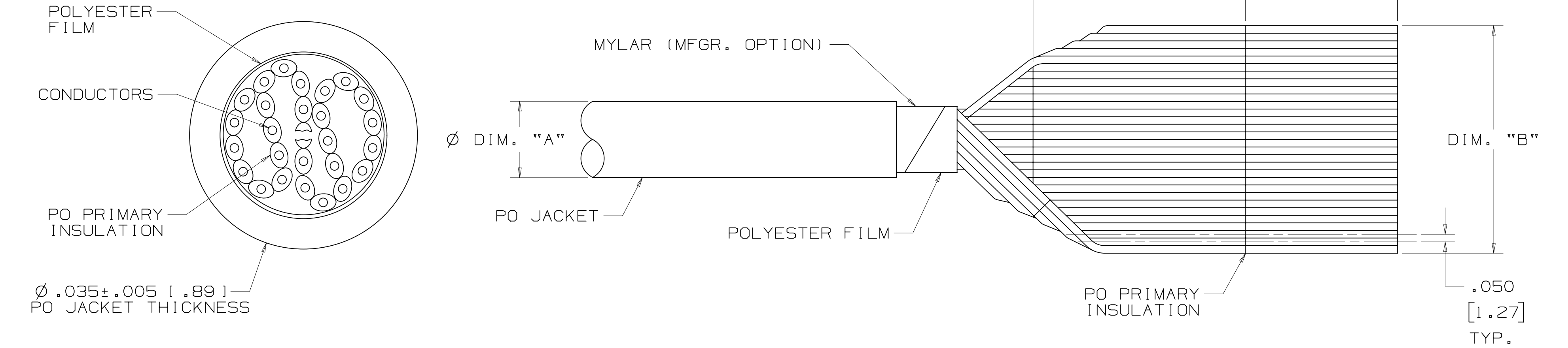


3M™ ROUND, JACKETED, FLAT CABLE, HF759 SERIES
.050" 28 AWG STRANDED, MASS TERMINATED, HALOGEN FREE PO/PO



- * 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.
- * ROUND CONSTRUCTION PERMITS MORE EASY ROUTING.
- * 28 AWG WIRE ON .050 INCH CENTERS PERMITS MASS TERMINATION TO BROAD LINE OF IDC CONNECTORS.
- * CONTINUOUS SPLIT/BOND REPEAT ALLOWS FOR MASS TERMINATIONS OF IDC CONNECTORS.
- * PRIMARY CABLE IS ZIPPABLE FOR BRANCHING OR DISCRETE TERMINATION.

- NOTES
1. REGULATORY INFORMATION: VISIT 3M.com/regs OR CONTACT YOUR 3M REPRESENTATIVE TO FIND THE RoHS COMPLIANCE STATUS OF THE 3M PART YOU ARE INTERESTED IN.
 2. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 3. BLUE MARKING ON ONE EDGE OF PRIMARY CABLE DESIGNATES WIRE #1.
 4. DIMENSION "B" PERTAINS TO BONDED AREA ONLY.

ORDERING INFORMATION
HF759/XX XX XX

NUMBER OF CONDUCTORS
(SEE TABLE 1)

BLANK = STANDARD
SF = SPLICE FREE

BLANK = STANDARD
SO = CONTINUOUSLY BONDED WIRE (NO SPLIT)

NOTE:
AVAILABLE IN STANDARD 275FT ROLLS. CONTACT 3M
FOR AVAILABILITY OF ADDITIONAL CONDUCTOR COUNTS
AND/OR CUSTOM ROLL LENGTHS.

PHYSICAL :

JACKET MATERIAL : HALOGEN FREE POLYOLEFIN (PO)
COLOR : DARK GRAY
PRIMARY MATERIAL : HALOGEN FREE POLYOLEFIN (PO)
COLOR : DARK GRAY

MARKING :
STANDARD : NONE
CONDUCTORS : 28 AWG, 7 X 36 AWG (7 X Ø .127) TINNED STRANDED COPPER
SHIELDING : POLYESTER FILM

ELECTRICAL :

VOLTAGE RATING : USA 150V CANADIAN 150V EU: <50V
INSULATION RESISTANCE : (PRIMARY CABLE) >1 X 10¹⁰Ω/10ft. (3m)

	UNBALANCED	BALANCED
CHARACTERISTIC IMPEDANCE :	75Ω	136Ω
CAPACITANCE :	22.6 pF/ft (74.3 pF/m)	12.4 pF/ft (40.6 pF/m)
INDUCTANCE :	.13μH/ft (.43μH/m)	.23μH/ft (.75μH/m)
PROPAGATION DELAY :	1.69 ns/ft (5.54 ns/m)	1.69 ns/ft (5.54 ns/m)
VELOCITY OF PROPAGATION :	60%	60%

NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS.
BALANCED IS MEASURED BETWEEN CONDUCTORS WITHIN A PAIR.
"MEASURED VALUES ARE TYPICAL"

ENVIRONMENTAL :

TEMPERATURE RATING : -40°C TO +105°C (EIA-364-32G, METHOD A, TEST CONDITION 2)
-10°C TO +75°C (UL TEMPERATUE RATING)

FLAMMABILITY RATING : INTERNAL : HORIZONTAL FLAME PER UL758
EXTERNAL : CABLE FLAME (VERTICAL) PER UL758

HALOGEN FREE IS DEFINED AS BOTH 1) NO HALOGEN 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 INFORMATION REPRESENTS 3M'S KNOWLEDGE AND BELIEF WHICH MAY BE BASED IN WHOLE OR IN PART ON INFORMATION PROVIDED BY 3RD PARTY SUPPLIERS TO 3M.

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3Mconnectors.com>

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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373



UL FILE NO: E42769
STYLE NO: 22170

INCH [MM]			
TOLERANCE - UNLESS NOTED			
	.X	.XX	.XXX
INCH	±.1	±.05	±.010
[] = DIM. FOR REFERENCE ONLY			

DESIGN REFERENCE		NEXT ASSEMBLY		E 79568		JUL 31, 2018		JNC		BM	
REV		ECO		REVISED & REDRAWN		REV		ECO		REV	
DATE		DATE		DATE		DATE		DATE		DATE	
JUN 14, 2018		JUN 14, 2018		JUN 14, 2018		JUN 14, 2018		JUN 14, 2018		JUN 14, 2018	
CHKD		CHKD		CHKD		CHKD		CHKD		CHKD	
DIVISION		DIVISION CODE		EMSD		EMSD		EMSD		EMSD	
DO NOT SCALE DRAWING		SCALE		TOLERANCES EXCEPT AS NOTED		TOLERANCES EXCEPT AS NOTED		TOLERANCES EXCEPT AS NOTED		TOLERANCES EXCEPT AS NOTED	
THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION	
MAX SURFACE ROUGHNESS		MAX SURFACE ROUGHNESS		MAX SURFACE ROUGHNESS		MAX SURFACE ROUGHNESS		MAX SURFACE ROUGHNESS		MAX SURFACE ROUGHNESS	
[] = DIM. FOR REFERENCE ONLY		[] = DIM. FOR REFERENCE ONLY		[] = DIM. FOR REFERENCE ONLY		[] = DIM. FOR REFERENCE ONLY		[] = DIM. FOR REFERENCE ONLY		[] = DIM. FOR REFERENCE ONLY	
CAGE NUMBER		CAGE NUMBER		CAGE NUMBER		CAGE NUMBER		CAGE NUMBER		CAGE NUMBER	
D 78-5100-2336-5		D 78-5100-2336-5		D 78-5100-2336-5		D 78-5100-2336-5		D 78-5100-2336-5		D 78-5100-2336-5	
MODEL		MODEL		MODEL		MODEL		MODEL		MODEL	
HF759		HF759		HF759		HF759		HF759		HF759	
REV		REV		REV		REV		REV		REV	
E		E		E		E		E		E	

3M™ ROUND, JACKETED, FLAT CABLE, HF759 SERIES

.050" 28 AWG STRANDED, MASS TERMINATED, HALOGEN FREE PO/PO

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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Austin, TX 78726-9000
1-800-225-5373
www.3M.com/interconnect

E		7958		JUL 31, 2018		JNC		BM	
REVISED & REDRAWN									
ISSUE DATE AND DESCRIPTION		DRFT		CHKD					
DATE		DATE		DATE					
JUN 14, 2018		MFO		DATE					
CHKD		DATE		APPR.		DATE			
B		MIZE		JUN 14, 2018					
DIVISION		DIVISION CODE		© 3M COPYRIGHT 2018					
EMSD		EMSD		This document and the information it contains are 3M property and may not be reproduced or further distributed without 3M permission, or used or disclosed other than for 3M authorized purposes. All rights reserved.					
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		3M Center St. Paul, MN 55144					
THIRD ANGLE PROJECTION		INCHES		TITLE		RD, JACKETED, 28 AWG, FLAT CABLE, HF759, HALOGEN FREE			
INTERPRET PER ASME Y14.5 - 2009		MILLIMETERS		CAGE NUMBER		SIZE		DRAWING NO.	
MAX. SURFACE ROUGHNESS		0.0000 ±		D		78-5100-2336-5		REV. E	
MIN. SURFACES		0.000 ±		MODEL		DET. LISTS		YES X NO	
MARKED ONLY		ANGLE		HF759		SHT 2		OF 2	