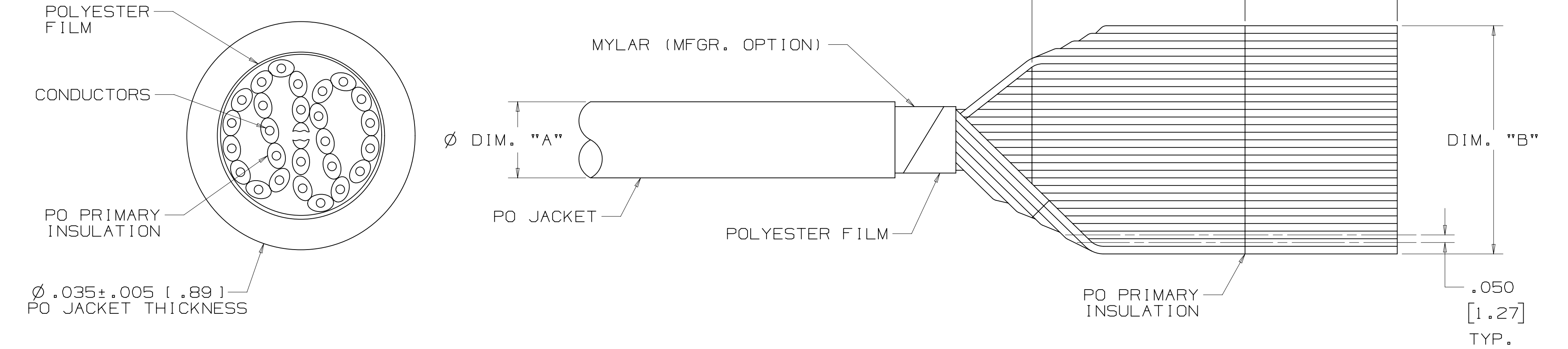


3M™ ROUND, JACKETED, FLAT CABLE, HF759 SERIES
.050" 28 AWG STRANDED, MASS TERMINATED, HALOGEN FREE PO/PO



- * 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 CERTAIN 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>

3M IS A TRADEMARK OF 3M COMPANY.
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	ISSUE DATE AND DESCRIPTION	DRFT	CHKD	
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	APPR	DATE	DATE	DATE
CHKD	CHKD	B. MIZE	DATE	DATE	DATE
DIVISION	DIVISION CODE	EMSD			
DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED			
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	INCHES			
MAX SURFACE ROUGHNESS	MAX SURFACES	MILLIMETERS			
MARKED ONLY	MARKED ONLY	ANGLES			
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RD, JACKETED, 28 AWG, FLAT CABLE, HF759, HALOGEN FREE					
CAGE NUMBER	SIZE	DRAWING NO.	REV.		
D	78-5100-2336-5	E			
MODEL	HF759	DET	LISTS	YES	NO
SHT	1	OF	2		

8

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6

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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

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www.3M.com/interconnect

DESIGN REFERENCE

NEXT ASSEMBLY

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

8

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DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

MAX SURFACE ROUGHNESS

MARKED ONLY

SCALE

INTERPRET PER ASME Y14.5 - 2009

MARKED SURFACES

TOLERANCES EXCEPT AS NOTED

MILLIMETERS

ANGLES

3M

3M Center St. Paul, MN 55144

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TITLE

RD, JACKETED, 28 AWG, FLAT CABLE, HF759, HALOGEN FREE

CAGE NUMBER

SIZE

DRAWING NO.

REV.

MODEL

HF759

DET

LISTS

YES

NO

SHT

2 OF 2

78-5100-2336-5

DRAWING NUMBER

E

REVISION

Time 8/1/2018 -- UTC Offset (hrs) 6

Imaged: Central Standard