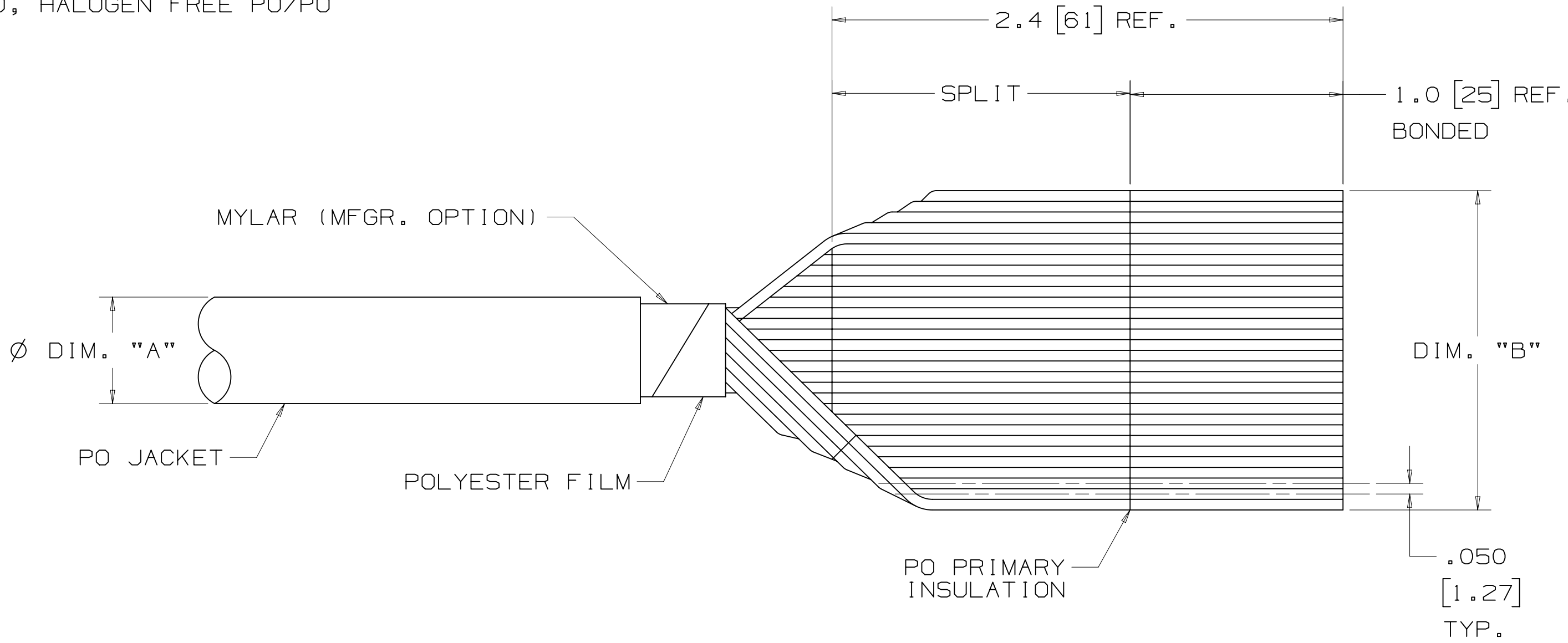
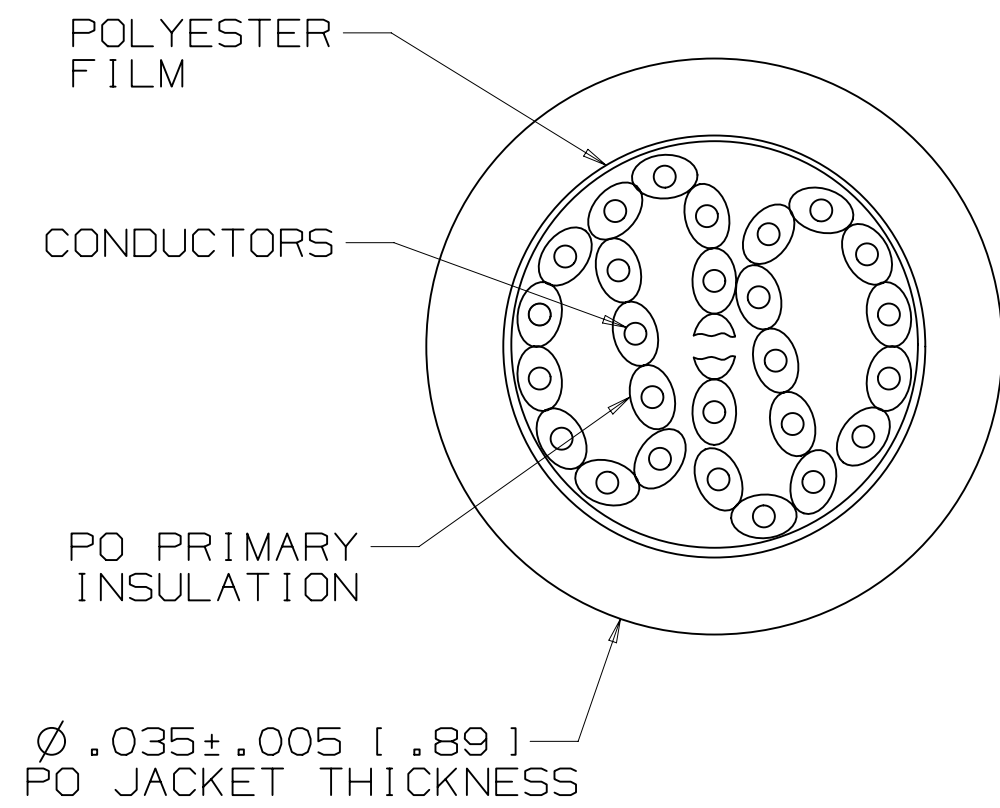


**3M™ ROUND, JACKETED, FLAT CABLE, HF759 SERIES**  
 .050" 28 AWG STRANDED, MASS TERMINATED, HALOGEN FREE PO/PO



- \* 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.

NUMBER OF CONDUCTORS	3M PART NUMBER	DIM. "A"	DIM. "B" SEE NOTE 4
9	HF759/09	0.26 [6.6]	0.40 [10.2]
10	HF759/10	0.26 [6.6]	0.45 [11.4]
14	HF759/14	0.27 [6.9]	0.65 [16.5]
15	HF759/15	0.27 [6.9]	0.70 [17.8]
16	HF759/16	0.27 [6.9]	0.75 [19.1]
20	HF759/20	0.30 [7.6]	0.95 [24.1]
24	HF759/24	0.33 [8.4]	1.15 [29.2]
25	HF759/25	0.33 [8.4]	1.20 [30.5]
26	HF759/26	0.33 [8.4]	1.25 [31.8]
30	HF759/30	0.37 [9.4]	1.45 [36.8]
34	HF759/34	0.37 [9.4]	1.65 [41.9]
36	HF759/36	0.39 [9.9]	1.75 [44.5]
37	HF759/37	0.39 [9.9]	1.80 [45.7]
40	HF759/40	0.39 [9.9]	1.95 [49.5]
50	HF759/50	0.44 [11.2]	2.45 [62.2]
60	HF759/60	0.47 [11.9]	2.95 [74.9]
64	HF759/64	0.50 [12.7]	3.15 [80.0]

**2 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  $\phi .127$ ) TINNED STRANDED COPPER  
 SHIELDING : POLYESTER FILM

**2 ELECTRICAL :**

VOLTAGE RATING : USA 150V CANADIAN 150V EU : <50V  
 INSULATION RESISTANCE : (PRIMARY CABLE)  $>1 \times 10^{10} \Omega / 10ft.$  [3m]

	UNBALANCED	BALANCED
CHARACTERISTIC IMPEDANCE :	75 $\Omega$	136 $\Omega$
CAPACITANCE :	22.6 pF/ft [74.3 pF/m]	12.4 pF/ft [40.6 pF/m]
INDUCTANCE :	.13 $\mu$ H/ft [.43 $\mu$ H/m]	.23 $\mu$ H/ft [.75 $\mu$ H/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"

**2 ENVIRONMENTAL :**

TEMPERATURE RATING : -40°C TO +105°C (EIA-364-32G, METHOD A, TEST CONDITION 2)  
 -10°C TO +75°C (UL TEMPERATURE 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  
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<http://www.3mconnectors.com>

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 INFORMATION CALL 800-225-5373



UL FILE NO : E42769  
 STYLE NO : 22170

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

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				JUN 14, 2018		
DIVISION		DIVISION CODE		DATE		
		EMSD		JUN 14, 2018		
DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED		DATE		
				JUN 14, 2018		
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS		DATE		
				JUN 14, 2018		
MAX SURFACE ROUGHNESS	SURFACES	INCHES		DATE		
				JUN 14, 2018		
TITLE			CAGE NUMBER			
RD, JACKETED, 28 AWG, FLAT CABLE, HF759, HALOGEN FREE			D 78-5100-2336-5			
MODEL			REV.			
HF759			E			

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78-5100-2336-5  
 DRAWING NUMBER  
 Time 8/1/2018 10:10:00 AM  
 UTC Offset (hrs) 6

8 7 6 5 4 3 2 1

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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 6801 River Place Blvd.  
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 www.3M.com/interconnect

DESIGN REFERENCE	NEXT ASSEMBLY	REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
				JUL 31, 2018 REVISED & REDRAWN	JNC	BM
APPROVED	DATE	DATE	DATE	DATE	DATE	DATE
CHKD	DATE	DATE	DATE	DATE	DATE	DATE
DIVISION	DIVISION CODE	 © 3M COPYRIGHT 2018 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	SCALE	TOLERANCES EXCEPT AS NOTED	INCHES .00 ± .000 ± .0000 ±			
THIRD ANGLE PROJECTION	INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS	0 ± .00 ± .000 ± .000 ±			
MAX SURFACE ROUGHNESS	MARKED SURFACES	MARKED ONLY	CAGE NUMBER	SIZE	DRAWING NO.	REV.
			D	78-5100-2336-5	HF759	E
			MODEL	HF759	DET	IS1S <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> SHT 2 OF 2

78-5100-2336-5  
 DRAWING NUMBER  
 Time 8/1/2018 11:51:00 AM  
 UTC Offset (hrs) 6

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

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