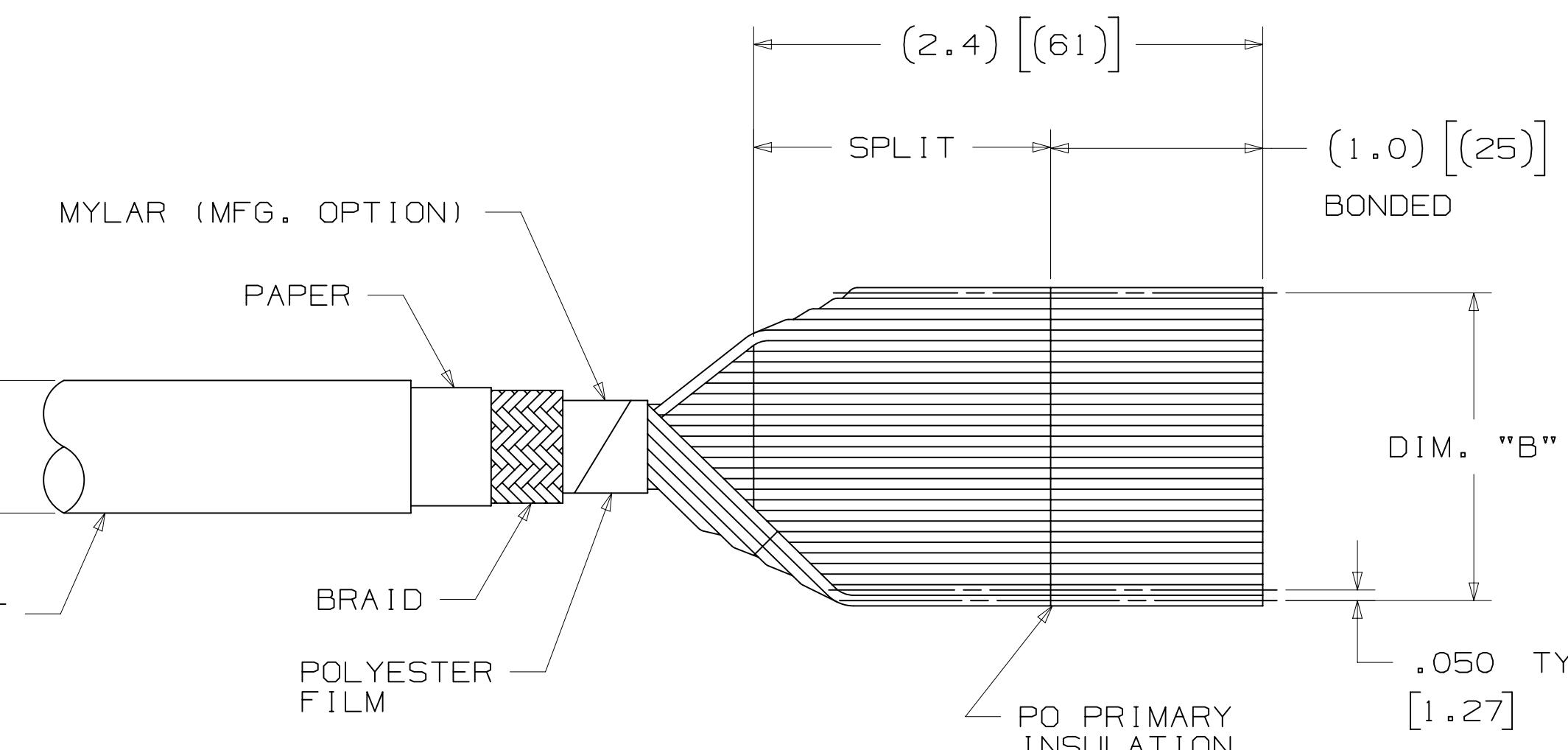
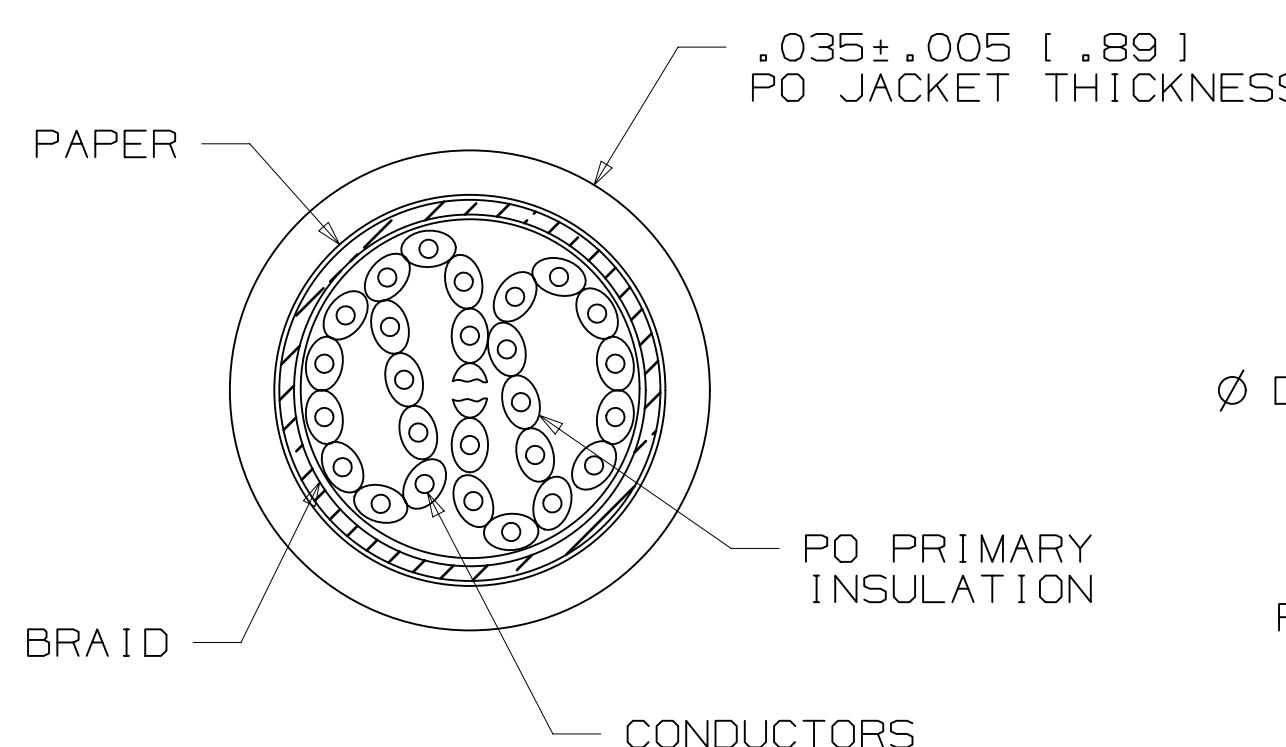


3M™ ROUND, SHIELDED/JACKETED, FLAT CABLE, HF659 SERIES

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



- * LOW SMOKE ZERO HALOGEN (LSZH) INSULATION. ADVANTAGES OF LSHZ 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.
- * DUAL SHIELDING PROVIDES 35 dB AVERAGE SHIELDING.
- * PRIMARY CABLE IS ZIPPABLE FOR BRANCHING OR DISCRETE TERMINATION.

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.

ORDERING INFORMATION

HF659/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.

TABLE 1			
NO. OF CONDUCTORS	3M PART NUMBER	DIM. "A"	DIM. "B"
09	HF659/09	.25 [6.4]	.40 [10.2]
10	HF659/10	.25 [6.4]	.45 [11.4]
14	HF659/14	.30 [7.6]	.65 [16.5]
15	HF659/15	.30 [7.6]	.70 [17.8]
16	HF659/16	.30 [7.6]	.75 [19.1]
20	HF659/20	.33 [8.4]	.95 [24.1]
24	HF659/24	.34 [8.6]	1.15 [29.2]
25	HF659/25	.34 [8.6]	1.20 [30.5]
26	HF659/26	.34 [8.6]	1.25 [31.8]
30	HF659/30	.37 [9.4]	1.45 [36.8]
34	HF659/34	.37 [9.4]	1.65 [41.9]
36	HF659/36	.41 [10.4]	1.75 [44.5]
37	HF659/37	.41 [10.4]	1.80 [45.7]
40	HF659/40	.41 [10.4]	1.95 [49.5]
50	HF659/50	.45 [11.4]	2.45 [62.2]
60	HF659/60	.48 [12.2]	2.95 [74.9]
64	HF659/64	.48 [12.2]	3.15 [80.0]

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,
UL STYLE NO: 22170

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

DESIGN REFERENCE	NEXT ASSEMBLY
ACCESS CODES	CASTIGLIONE
CASTIGLIONE	REVISION DATE MAY 29, 2018
CHKD	APPROV. B. MIZE DATE MAY 29, 2018
DO NOT SCALE DRAWING	SCALE DRAWING
EMSD	TOLERANCES EXCEPT AS NOTED
INCHES	INCHES
THIRD ANGLE PROJECTION	SCALE
ASME Y14.5 - 2009	INTERPRET PER
MAX SURFACE ROUGHNESS	0.0000 ±
LIN. SURFACES	0.0000 ±
MARKED ONLY	0.0000 ±
ANGLE	ANGLE
CAGE NUMBER	SIZE
MODEL	DRAWING NO.
HF659	78-5100-2335-7

© 3M COPYRIGHT 2018
This document and the information it contains are the sole property of 3M. It is to be held in confidence and is not to be reproduced or distributed without the express permission, or used or disclosed other than for 3M authorized purposes.
All rights reserved.

Imaged: Central Standard Time 8/1/2018 -- UTC Offset (hrs) 6

3M™ ROUND, SHIELDED/JACKETED, FLAT CABLE, HF659 SERIES
 .050" 28 AWG STRANDED, MASS TERMINATABLE, HALOGEN FREE PO/PO

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

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OR TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

3M Electronics Materials Solutions Division
 6801 River Place Blvd.
 Austin, TX 78726-9000
 1-800-225-5373
www.3M.com/interconnect

E	80157	AUG 01, 2018	JNC	BM
		REVISED ELECTRICAL & ENVIRONMENTAL NOTES		
D	79295	MAY 29, 2018	JNC	BM
		REVISED AND REDRAWN		
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
		CASTIGLIONE	MFG	DATE
		DATE	APPROV.	DATE
		CHKD	B. MIZE	MAY 29, 2018
DESIGN REFERENCE	NEXT ASSEMBLY			
ACCESS CODES				
DIVISION	DIVISION CODE			
EMSD				
DO NOT SCALE DRAWING	SCALE	TOLERANCES EXCEPT AS NOTED		
THIRD ANGLE PROJECTION	INCHES			
INTERPRET PER ASME Y14.5 - 2009	MILLIMETERS			
MAX SURFACE ROUGHNESS				
LIN. SURFACES				
MARKED ONLY				
ANGLE				
CAGE NUMBER	SIZE	DRAWING NO.		
D	78-5100-2335-7	E		
REV.				
DET. LISTS	YES	NO	SHT 2 OF 2	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[3M](#):

[HF659/09SF-275](#) [HF659/10SF-275](#) [HF659/15SF-275](#) [HF659/26SF-275](#) [HF659/34SF-275](#) [HF659/37SF-275](#)
[HF659/09-275](#) [HF659/10-275](#) [HF659/14-275](#) [HF659/14SF-275](#) [HF659/15-275](#) [HF659/16-275](#) [HF659/16SF-275](#)
[HF659/20-275](#) [HF659/20SF-275](#) [HF659/24-275](#) [HF659/24SF-275](#) [HF659/25-275](#) [HF659/25SF-275](#) [HF659/26-275](#)
[HF659/30-275](#) [HF659/30SF-275](#) [HF659/34-275](#) [HF659/36-275](#) [HF659/36SF-275](#) [HF659/37-275](#) [HF659/40-275](#)
[HF659/40SF-275](#) [HF659/50-275](#) [HF659/50SF-275](#) [HF659/60-275](#) [HF659/60SF-275](#) [HF659/64-275](#) [HF659/64SF-275](#)