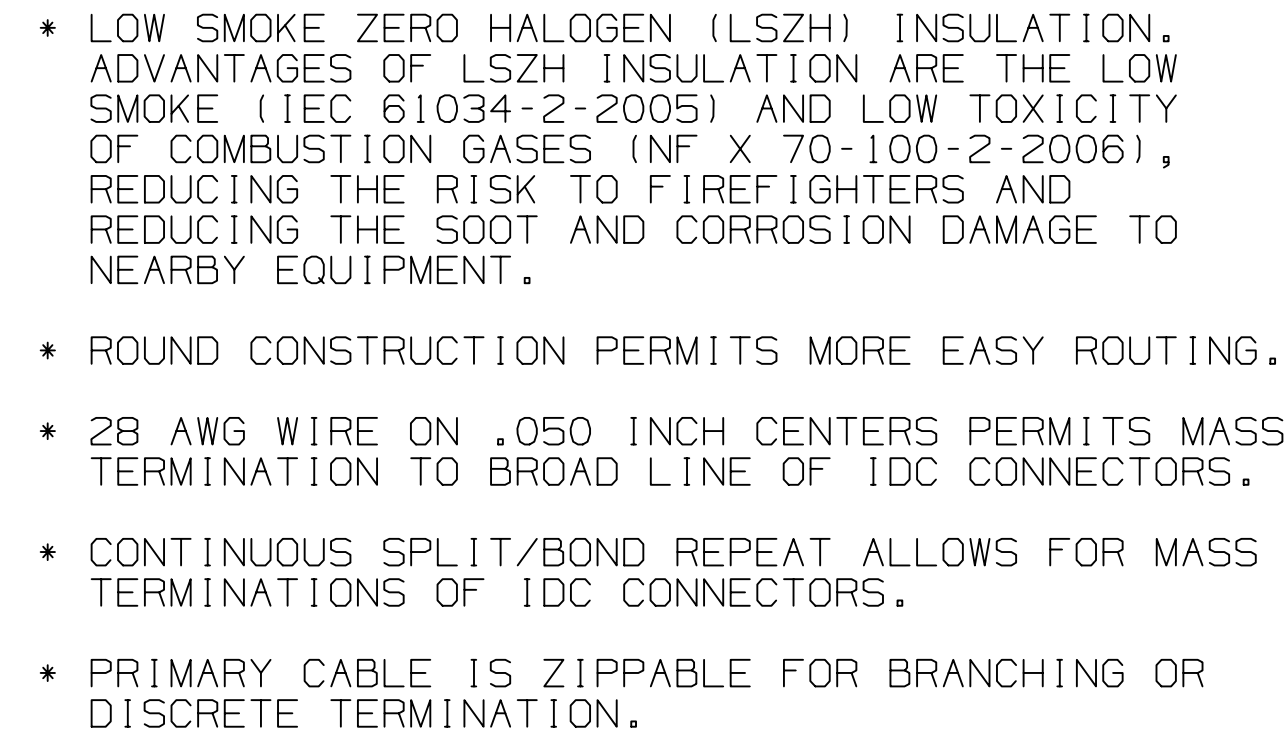


.050" 28 AWG STRANDED, MASS TERMINATED, HALOGEN FREE PO/PO



- 2 PHYSICAL :

MARKING: \_\_\_\_\_  
STANDARD: NONE  
CONDUCTORS: 28 AWG, 7 X 36 AWG [ 7 X  $\phi$ .127 ] TINNED STRANDED COPPER  
SHIELDING: POLYESTER FILM

2 ELECTRICAL :

|                           | 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 :

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.

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

|                                                                                       |                                         |                      |
|---------------------------------------------------------------------------------------|-----------------------------------------|----------------------|
|  | DRAWING NUMBER<br><b>78-5100-2336-5</b> | REVISION<br><b>E</b> |
|                                                                                       |                                         |                      |

# 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](http://3M.com/regs) or contact your 3M representative.

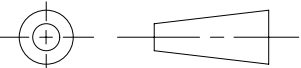
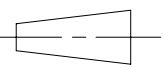
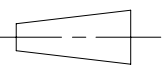
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|                                                                                                                                                               |  |                                                                                                                                |  |                                                                                                                                 |  |                                                                                                                       |  |                                                                                                                                                                                                                       |  |                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|
|                                                                                                                                                               |  |                                                                                                                                |  | E 79588                                                                                                                         |  | JUL 31 2018                                                                                                           |  | JNC                                                                                                                                                                                                                   |  | BM                |  |
|                                                                                                                                                               |  |                                                                                                                                |  | REVISED & REDRAWN                                                                                                               |  |                                                                                                                       |  |                                                                                                                                                                                                                       |  |                   |  |
| DESIGN REFERENCE                                                                                                                                              |  | NEXT ASSEMBLY                                                                                                                  |  | REV                                                                                                                             |  | ECO                                                                                                                   |  | ISSUE DATE AND DESCRIPTION                                                                                                                                                                                            |  | DRFT CHKD         |  |
| ASME CODES                                                                                                                                                    |  |                                                                                                                                |  | DRFT CASTIGLIONE                                                                                                                |  | DATE JUN 14, 2018                                                                                                     |  | INFO                                                                                                                                                                                                                  |  | DATE              |  |
|                                                                                                                                                               |  |                                                                                                                                |  | CHKD                                                                                                                            |  | DATE                                                                                                                  |  | APPROV. B. MIZE                                                                                                                                                                                                       |  | DATE JUN 14, 2018 |  |
| DIVISION                                                                                                                                                      |  |                                                                                                                                |  | DIVISION CODE EMSD                                                                                                              |  |                                                                                                                       |  | © 3M COPYRIGHT 2018                                                                                                                                                                                                   |  |                   |  |
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|  THIRD ANGLE PROJECTION                                                  |  |  INCHES<br>.0<br>.00<br>.000 ±<br>.0000 ± |  |  MILLIMETERS<br>0<br>.0<br>.00 ±<br>.000 ± |  | TITLE<br>RD, JACKETED, 28 AWG,<br>FLAT CABLE, HF759,<br>HALOGEN FREE                                                  |  |                                                                                                                                                                                                                       |  |                   |  |
| MAX SURFACE ROUGHNESS<br>INTERPRET PER ASME Y14.5 - 2009<br>✓ <input type="checkbox"/> UNFINISHED SURFACES<br><input checked="" type="checkbox"/> MARKED ONLY |  | ANGLE =                                                                                                                        |  | CAGE NUMBER<br>D                                                                                                                |  | SIZE<br>578-5100-2336-5                                                                                               |  | DRAWING NO.<br>578-5100-2336-5                                                                                                                                                                                        |  | REV. E            |  |
|                                                                                                                                                               |  |                                                                                                                                |  | MODEL HF759                                                                                                                     |  | DET. LISTS                                                                                                            |  | YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>                                                                                                                                                   |  | SHT 2 OF 2        |  |

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