

July 22, 2025
Issue number: 1061

Dear Valued Customer

Subject: Notification of Optional Drain Wire Addition for 3M™ Round Shielded/Jacketed Discrete Wire Cable 3600X Series

As part of our commitment to continuous improvement and providing high-quality products, we are pleased to inform you of an enhancement to our 3M™ Round Shielded/Jacketed Discrete Wire Cable 3600X Series.

What's New?

Starting immediately, we will be offering an optional drain wire feature for the 3M cable 3600 series. This addition is designed to improve the cable's performance in specific applications where grounding and shielding are critical.

Benefits of the Drain Wire:

- Enhanced grounding capabilities
- Improved signal integrity
- Reduced electromagnetic interference (EMI)
- Increased overall reliability in demanding environments

*New Skus will be created on demand

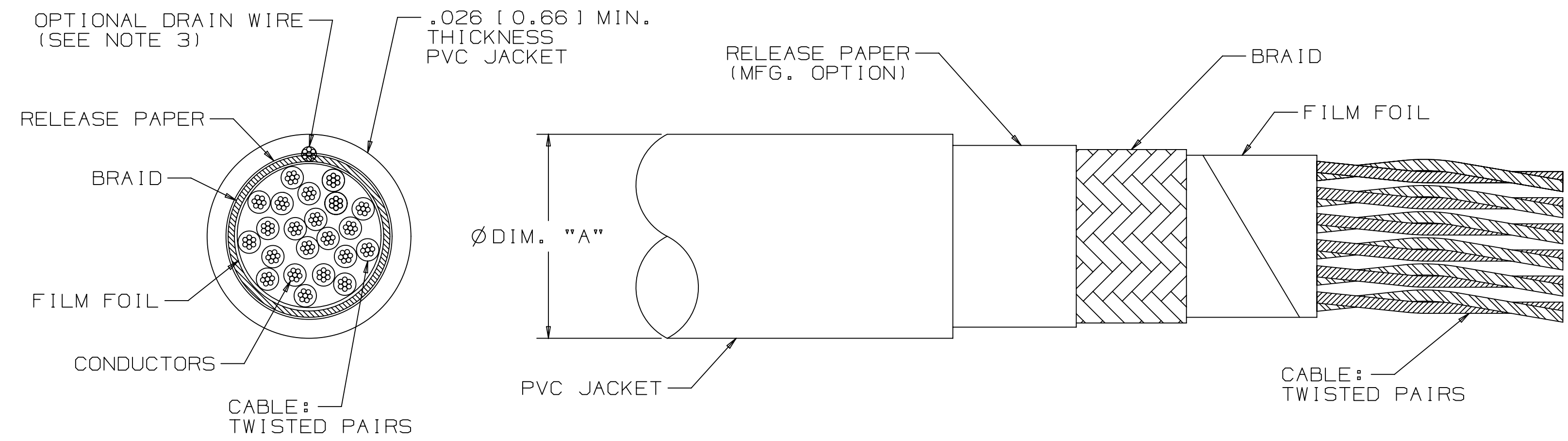
Please see the Technical Data Sheet attached to this email for the specification.

Brent Gossett |

Portfolio Marketing Manager for Global Interconnect
bgossett@mmm.com

3M™ ROUND, SHIELDED/JACKETED, DISCRETE WIRE CABLE, 3600X SERIES

28 AWG STRANDED, TWISTED PAIR, PVC/PVC



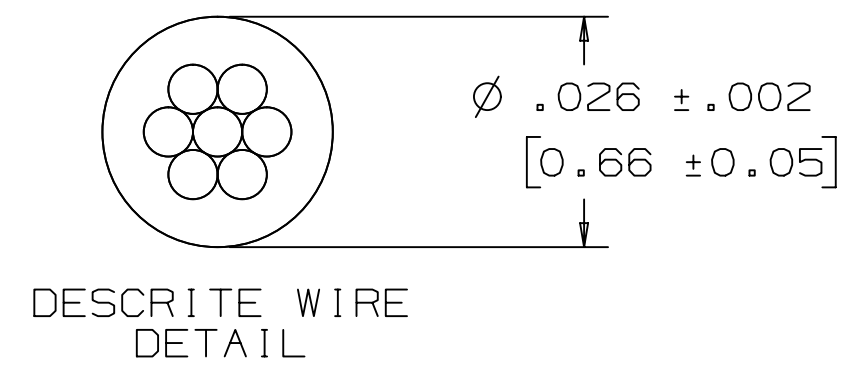
ORDERING INFORMATION

3600X/XX XX DW

JACKET COLOR OPTIONS:
 A = BLACK JACKET (SPECIAL)
 B = BEIGE JACKET (STANDARD)
 C = GRAY JACKET (SPECIAL)

OPTIONAL DRAIN WIRE (SPECIAL)
 BLANK = STANDARD
 SF = SPLICE FREE

NUMBER OF CONDUCTORS (SEE TABLE 1)



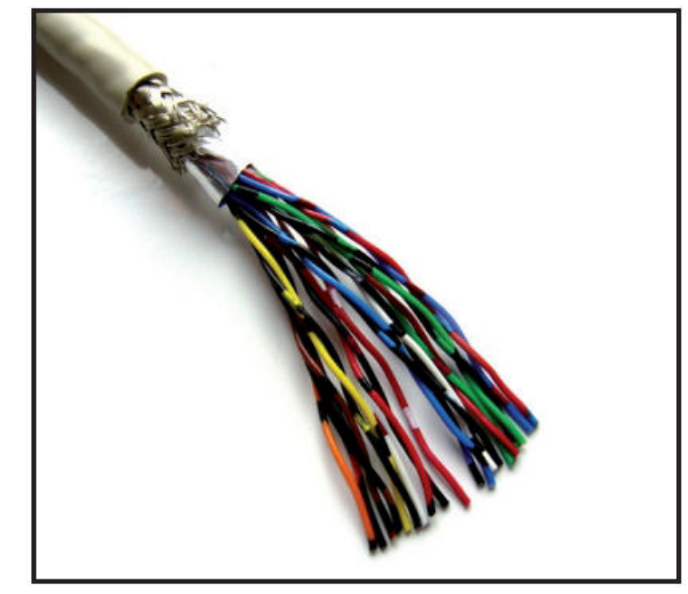
NOTE:
 AVAILABLE IN STANDARD 100ft, 200ft AND 300ft ROLLS.
 PLEASE SPECIFY WHEN ORDERING.
 CONTACT 3M FOR AVAILABILITY OF ADDITIONAL CONDUCTOR COUNTS AND/OR CUSTOM ROLL LENGTHS.

| PAIR | COND | 1st CONDUCTOR | | COND | 2nd CONDUCTOR | | PAIR | COND | 1st CONDUCTOR | | COND | 2nd CONDUCTOR | |
|------|------|---------------|--------|------|---------------|-------|------|------|---------------|--------|------|---------------|--------|
| | | SOLID | BAND | | SOLID | BAND | | | SOLID | BAND | | SOLID | BAND |
| 1 | 1 | BLACK | RED | 2 | RED | BLACK | 26 | 51 | BROWN | YELLOW | 52 | YELLOW | BROWN |
| 2 | 3 | BLACK | WHITE | 4 | WHITE | BLACK | 27 | 53 | BROWN | ORANGE | 54 | ORANGE | BROWN |
| 3 | 5 | BLACK | GREEN | 6 | GREEN | BLACK | 28 | 55 | ORANGE | YELLOW | 56 | YELLOW | ORANGE |
| 4 | 7 | BLACK | BLUE | 8 | BLUE | BLACK | 29 | 57 | VIOLET | ORANGE | 58 | ORANGE | VIOLET |
| 5 | 9 | BLACK | YELLOW | 10 | YELLOW | BLACK | 30 | 59 | VIOLET | RED | 60 | RED | VIOLET |
| 6 | 11 | BLACK | BROWN | 12 | BROWN | BLACK | 31 | 61 | VIOLET | WHITE | 62 | WHITE | VIOLET |
| 7 | 13 | BLACK | ORANGE | 14 | ORANGE | BLACK | 32 | 63 | VIOLET | GREEN | 64 | GREEN | VIOLET |
| 8 | 15 | RED | WHITE | 16 | WHITE | RED | 33 | 65 | VIOLET | BLUE | 66 | BLUE | VIOLET |
| 9 | 17 | RED | GREEN | 18 | GREEN | RED | 34 | 67 | VIOLET | YELLOW | 68 | YELLOW | VIOLET |
| 10 | 19 | RED | BLUE | 20 | BLUE | RED | 35 | 69 | VIOLET | BROWN | 70 | BROWN | VIOLET |
| 11 | 21 | RED | YELLOW | 22 | YELLOW | RED | 36 | 71 | VIOLET | BLACK | 72 | BLACK | VIOLET |
| 12 | 23 | RED | BROWN | 24 | BROWN | RED | 37 | 73 | GRAY | WHITE | 74 | WHITE | GRAY |
| 13 | 25 | RED | ORANGE | 26 | ORANGE | RED | 38 | 75 | GRAY | BROWN | 76 | BROWN | GRAY |
| 14 | 27 | GREEN | WHITE | 28 | WHITE | GREEN | 39 | 77 | GRAY | RED | 78 | RED | GRAY |
| 15 | 29 | GREEN | BLUE | 30 | BLUE | GREEN | 40 | 79 | GRAY | ORANGE | 80 | ORANGE | GRAY |
| 16 | 31 | GREEN | YELLOW | 32 | YELLOW | GREEN | 41 | 81 | GRAY | YELLOW | 82 | YELLOW | GRAY |
| 17 | 33 | GREEN | BROWN | 34 | BROWN | GREEN | 42 | 83 | GRAY | GREEN | 84 | GREEN | GRAY |
| 18 | 35 | GREEN | ORANGE | 36 | ORANGE | GREEN | 43 | 85 | GRAY | BLUE | 86 | BLUE | GRAY |
| 19 | 37 | WHITE | BLUE | 38 | BLUE | WHITE | 44 | 87 | TAN | ORANGE | 88 | ORANGE | TAN |
| 20 | 39 | WHITE | YELLOW | 40 | YELLOW | WHITE | 45 | 89 | TAN | GREEN | 90 | GREEN | TAN |
| 21 | 41 | WHITE | BROWN | 42 | BROWN | WHITE | 46 | 91 | TAN | BLACK | 92 | BLACK | TAN |
| 22 | 43 | WHITE | ORANGE | 44 | ORANGE | WHITE | 47 | 93 | TAN | BLUE | 94 | BLUE | TAN |
| 23 | 45 | BLUE | YELLOW | 46 | YELLOW | BLUE | 48 | 95 | TAN | WHITE | 96 | WHITE | TAN |
| 24 | 47 | BLUE | BROWN | 48 | BROWN | BLUE | 49 | 97 | TAN | YELLOW | 98 | YELLOW | TAN |
| 25 | 49 | BLUE | ORANGE | 50 | ORANGE | BLUE | 50 | 99 | TAN | BROWN | 100 | BROWN | TAN |

| NUMBER OF CONDUCTORS | 3M PART NUMBER | DIM. "A" ± .02 |
|----------------------|----------------|----------------|
| 14 (7) PAIR | 3600X/14 | .22 [5.6] |
| 20 (10) PAIR | 3600X/20 | .24 [6.1] |
| 24 (12) PAIR | 3600X/24 | .25 [6.4] |
| 26 (13) PAIR | 3600X/26 | .25 [6.4] |
| 36 (18) PAIR | 3600X/36 | .29 [7.4] |
| 40 (20) PAIR | 3600X/40 | .30 [7.6] |
| 50 (25) PAIR | 3600X/50 | .32 [8.1] |
| 68 (34) PAIR | 3600X/68 | .36 [9.1] |
| 80 (40) PAIR | 3600X/80 | .39 [9.9] |
| 100 (50) PAIR | 3600X/100 | .44 [11.2] |

- * MEETS EXTERNAL WIRING REQUIREMENTS OF NATIONAL ELECTRICAL CODE: ARTICAL 725 (CL2).
- * 28 AWG STRANDED WIRE PROVIDES FLEXIBILITY.
- * TWISTED PAIRS REDUCE CROSSTALK FOR BALANCE DRIVE APPLICATIONS.
- * DUAL SHIELDING WITH ALUMINUM FILM FOIL AND COPPER BRAID PROVIDES EXCELLENT EMI/ESD PROTECTION.
- * WIRES ARE COLOR CODED FOR EASY IDENTIFICATION.
- * 35db AVERAGE SHIELDING EFFECTIVENESS.

- NOTES
- REGULATORY INFORMATION: VISIT 3M.com/regs
 - IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.
 - OPTIONAL DRAIN WIRE, SPECIAL ORDER:
28 AWG, 7 X 36 AWG (7 X Ø0.127) TPC.



PHYSICAL :

JACKET MATERIAL: POLYVINYL CHLORIDE (PVC)
 COLOR: BEIGE
 PRIMARY MATERIAL: PVC

MARKING:
 STANDARD: SEE "PRINTING ILLUSTRATION" BELOW

CONDUCTORS: 28 AWG, 7 X 36 AWG (7 X Ø0.127) TINNED STRANDED COPPER

SHIELDING: 0.001 [0.03] THICK ALUMINUM/POLYESTER FILM FOIL AND 90% COVERAGE TINNED COPPER BRAID

ELECTRICAL :

VOLTAGE RATING: USA: N.E.C. 725, CL2 CANADIAN 150V, EU: <50V

INSULATION RESISTANCE: (PRIMARY CABLE) >1 X 10¹⁰Ω/10ft. [3m]

CHARACTERISTIC IMPEDANCE: UNBALANCED 58Ω BALANCED 91Ω

CAPACITANCE: 29.2 pF/ft [95.8 pF/m] 18.5 pF/ft [60.7 pF/m]

INDUCTANCE: 0.10μH/ft [0.33μH/m] 0.15μH/ft [0.49μH/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 CONDUCTORS WITHIN A PAIR WITH ONE CONDUCTOR CONNECTED TO THE SHIELD. BALANCED IS MEASURED BETWEEN CONDUCTORS WITHIN A PAIR WITH THE SHIELD FLOATING.

ENVIRONMENTAL :

TEMPERATURE RATING: USA: CL2: 75°C CANADA: 80°C

FLAMMABILITY RATING: USA: N.E.C. 725, CL2 CANADA: FT1

"PRINTING ILLUSTRATION"

UL® CL2 75°C 28 AWG 3M NU **UL**® AWM II A/B 80°C 150V FT1 EU <50V

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

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UL® **us**
 UL FILE NO: E118773,
 POWER LIMITED CIRCUIT
 CABLE: CL2

DIMENSIONS: INCHES [MM]
 [MM] IS FOR REF. ONLY

| | | | | |
|-----|--------|--|------|------|
| REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| D | 116059 | MAY 07, 2024 REVISE AND REDRAW | JNC | FJR |
| C | 41014 | MAY 24, 2012 CORRECT ERRORS | TB | TB |
| B | 23275 | APR 24, 2009 REVISE TABLE AND NOTES | RE | RE |

| | |
|---------------------------------|--|
| DESIGN REFERENCE | NEXT ASSEMBLY |
| SCALE | TOLERANCES EXCEPT AS NOTED |
| DO NOT SCALE DRAWING | INCHES: .0 ± .1, .00 ± .05, .000 ± .010, .0000 ± .0005 |
| THIRD ANGLE PROJECTION | MILLIMETERS: 0 ± .1, .00 ± .05, .000 ± .010, .0000 ± .0005 |
| INTERPRET PER ASME Y14.5 - 2018 | MAX SURFACE ROUGHNESS |
| MARKED ONLY | ANGLES |

3M Center St. Paul, MN 55144

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TITLE: SHIELDED/JACKETED, ROUND, DISC. WIRE CABLE, 28AWG

CAGE NUMBER: **D** 78-5100-0388-8

MODEL: 3600X

REV. **D**

DET: YES NO

SHT 1 OF 2

8 7 6 5 4 3 2 1
3M™ ROUND, SHIELDED/JACKETED, DISCRETE WIRE CABLE, 3600X SERIES
 28 AWG STRANDED, TWISTED PAIR, PVC/PVC

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

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|---|---------------------------------|---|---|----------------------------|--------------|---|
| DESIGN REFERENCE | NEXT ASSEMBLY | REV | ECO | ISSUE DATE AND DESCRIPTION | DRFT | CHKD |
| | | DRFT | CASTIGLIONE | DATE MAY 07, 2024 | MFG | DATE |
| | | CHKD | | DATE | APPRV | DATE |
| | | | | | F. RODRIGUEZ | MAY 07, 2024 |
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| DO NOT SCALE DRAWING | SCALE | TOLERANCES EXCEPT AS NOTED |  3M Center St. Paul, MN 55144 | | | |
| THIRD ANGLE PROJECTION | INTERPRET PER ASME Y14.5 - 2018 | INCHES .0 ± .1 .00 ± .05 .000 ± .010 .0000 ± .0005 | TITLE SHIELDED/JACKETED, ROUND, DISC. WIRE CABLE, 28AWG | | | |
| MAX. SURFACE ROUGHNESS | ALL SURFACES | MILLIMETERS 0 ± .0 ± .00 ± .000 ± | CAGE NUMBER | SIZE | DRAWING NO. | REV. |
| <input checked="" type="checkbox"/> MARKED ONLY | ANGLES ± | | D | 78-5100-0388-8 | D | D |
| | | | MODEL | 3600X | DET | ISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SHT 2 OF 2 |

DRAWING NUMBER 78-5100-0388-B REVISION