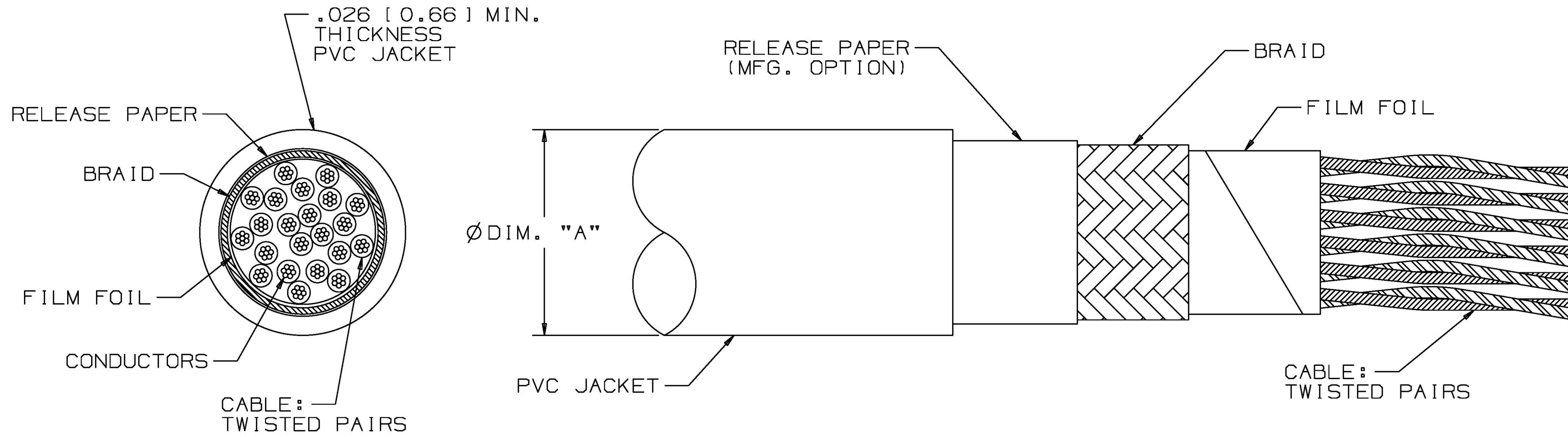


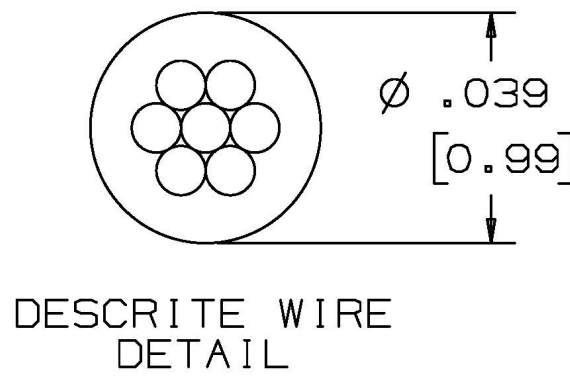
3M™ ROUND, SHIELDED/JACKETED, DISCRETE WIRE CABLE, 3750 SERIES
26 AWG STRANDED, TWISTED PAIR, PVC/PVC



ORDERING INFORMATION
3750/XX XX

NUMBER OF CONDUCTORS (SEE TABLE 1)
BLANK = STANDARD
SF = SPLICE FREE

NOTE:
AVAILABLE IN STANDARD 100ft OR 1000ft ROLLS.
PLEASE SPECIFY WHEN ORDERING.
CONTACT 3M FOR AVAILABILITY OF ADDITIONAL CONDUCTOR COUNTS AND/OR CUSTOM ROLL LENGTHS.



- * MEETS EXTERNAL WIRING REQUIREMENTS OF NATIONAL ELECTRICAL CODE: ARTICAL 725 (CL2).
- * 26 AWG WIRE CARRIES HIGHER POWER LEVELS IN I/O HARNESS.
- * TWISTED PAIRS REDUCE CROSSTALK FOR BALANCE DRIVE APPLICATIONS.
- * DUAL SHIELDING PROVIDES 35db AVERAGE SHIELDING.
- * WIRES ARE COLOR CODED FOR EASY IDENTIFICATION.

1. REGULATORY INFORMATION:
VISIT 3M.com/regs
2. IN THE EVENT OF CONFLICT BETWEEN THIS DATA AND THAT CONTAINED IN THE PRODUCT SPECIFICATION, THE PRODUCT SPECIFICATION TAKES PRECEDENT.



PHYSICAL :

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

MARKING:
STANDARD: SEE "PRINTING ILLUSTRATION" BELOW
CONDUCTORS: 26 AWG, 7 X 34 AWG [7 X Ø0.160] 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 AWM 300V CANADIAN 150V, EU: <50V
INSULATION RESISTANCE: (PRIMARY CABLE) >1 X 10¹⁰Ω/10ft. [3m]

	UNBALANCED	BALANCED
CHARACTERISTIC IMPEDANCE:	51Ω	100Ω
CAPACITANCE:	35.6 pF/ft [116.8 pF/m]	18.1 pF/ft [59.4 pF/m]
INDUCTANCE:	0.09μH/ft [0.30μH/m]	0.18μH/ft [0.59μH/m]
PROPAGATION DELAY:	1.82 ns/ft [5.97 ns/m]	1.81 ns/ft [5.94 ns/m]
VELOCITY OF PROPAGATION:	56%	56%

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"

CL2 75°C 26 AWG OR AWM 2464 3M NU AWM II A/B 80°C 150V FT1 EU <50V

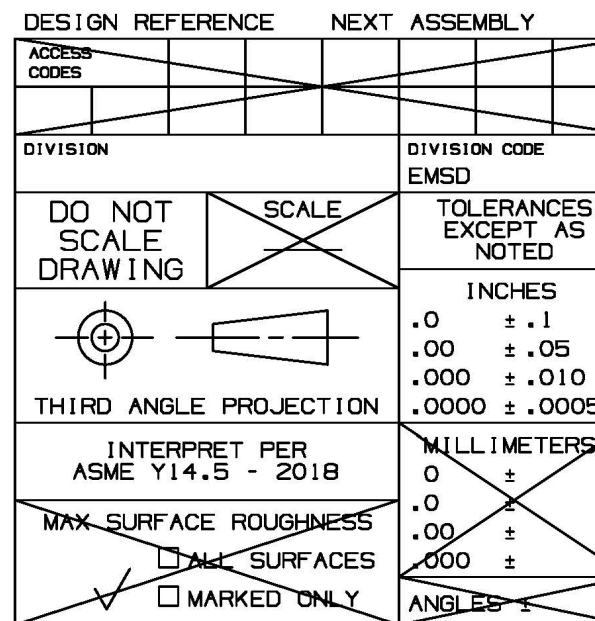
TABLE 2
PAIR IDENTIFICATION

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	17	33	GREEN	BROWN	34	BROWN	GREEN
2	3	BLACK	WHITE	4	WHITE	BLACK	18	35	GREEN	ORANGE	36	ORANGE	GREEN
3	5	BLACK	GREEN	6	GREEN	BLACK	19	37	WHITE	BLUE	38	BLUE	WHITE
4	7	BLACK	BLUE	8	BLUE	BLACK	20	39	WHITE	YELLOW	40	YELLOW	WHITE
5	9	BLACK	YELLOW	10	YELLOW	BLACK	21	41	WHITE	BROWN	42	BROWN	WHITE
6	11	BLACK	BROWN	12	BROWN	BLACK	22	43	WHITE	ORANGE	44	ORANGE	WHITE
7	13	BLACK	ORANGE	14	ORANGE	BLACK	23	45	BLUE	YELLOW	46	YELLOW	BLUE
8	15	RED	WHITE	16	WHITE	RED	24	47	BLUE	BROWN	48	BROWN	BLUE
9	17	RED	GREEN	18	GREEN	RED	25	49	BLUE	ORANGE	50	ORANGE	BLUE
10	19	RED	BLUE	20	BLUE	RED	26	51	BROWN	YELLOW	52	YELLOW	BROWN
11	21	RED	YELLOW	22	YELLOW	RED	27	53	ORANGE	YELLOW	54	YELLOW	ORANGE
12	23	RED	BROWN	24	BROWN	RED	28	55	BROWN	ORANGE	56	ORANGE	BROWN
13	25	RED	ORANGE	26	ORANGE	RED	29	57	VIOLET	RED	58	RED	VIOLET
14	27	GREEN	WHITE	28	WHITE	GREEN	30	59	VIOLET	WHITE	60	WHITE	VIOLET
15	29	GREEN	BLUE	30	BLUE	GREEN	31	61	VIOLET	GREEN	62	ORANGE	VIOLET
16	31	GREEN	YELLOW	32	YELLOW	GREEN	32	63	VIOLET	BLUE	64	BLUE	VIOLET

TABLE 1

NUMBER OF CONDUCTORS	3M PART NUMBER	DIM. "A"
10 (5) PAIR	3750/10	.26 [6.6]
16 (8) PAIR	3750/16	.31 [7.9]
26 (13) PAIR	3750/26	.37 [9.4]
38 (19) PAIR	3750/38	.43 [10.9]
50 (25) PAIR	3750/50	.49 [12.4]
60 (30) PAIR	3750/60	.52 [13.2]

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



C	115525	MAY 08,2024	JNC	FJR
B	23307	APR 25,2009	RDE	RDE
REV	ECO	ISSUE DATE AND DESCRIPTION	DRFT	CHKD
001	PASTIGLIONE	MAY 08,2024	001	001
002	DATE	DATE	DATE	DATE
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3M ELECTRONICS MATERIALS SOLUTIONS DIVISION
INTERCONNECT SOLUTIONS
<http://www.3M.com/interconnect>

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FOR TECHNICAL, SALES OR ORDERING
INFORMATION CALL 800-225-5373

UL FILE NO: E118773,
POWER LIMITED CIRCUIT
CABLE: CL2

8

7

6

5

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3

2

1

3M™ ROUND, SHIELDED/JACKETED, DISCRETE WIRE CABLE, 3750 SERIES

26 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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3M Company

Electronics Materials Solutions Division

13011 McCallen Pass, Bldg. C

Austin, TX 78753-5380

1-800-225-5373

www.3M.com/interconnect

3M ELECTRONICS MATERIALS SOLUTIONS DIVISION

INTERCONNECT SOLUTIONS

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DESIGN REFERENCE

NEXT ASSEMBLY

REV

ECO

ISSUE DATE AND DESCRIPTION

DRFT

CHKD

DRFT

CASTIGLIONE

DATE

MAY 08,2024

APPR

F. RODRIGUEZ

DATE

MAY 08,2024

DIVISION

DIVISION CODE

EMSD

DO NOT SCALE DRAWING

SCALE

TOLERANCES EXCEPT AS NOTED

THIRD ANGLE PROJECTION

INTERPRET PER ASME Y14.5 - 2018

MILLIMETERS

0 ±

.00 ±

.000 ±

.000 ±

INCHES

0 ±

.00 ±

.000 ±

.000 ±

MAX SURFACE ROUGHNESS

ALL SURFACES

MARKED ONLY

ANGLES

3M

3M Center St. Paul, MN 55144

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TITLE

SHIELDED/JACKETED, ROUND, DISC. WIRE CABLE, 26AWG

CAGE NUMBER

SIZE

DRAWING NO.

REV.

D

78-5100-0072-8

C

MODEL

3750

DET

Lists

YES

NO

SHT 2 OF 2

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