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

28 AWG STRANDED, TWISTED PAIR, PVC/PVC

OPTIONAL DRAIN WIRE
(SEE NOTE 3)

RELEASE PAPER

BRAID

FILM FOIL

CONDUCTORS

CABLE: TWISTED PAIRS

.026 [0.66] MIN.
THICKNESS
PVC JACKET

RELEASE PAPER
(MFG. OPTION)

BRAID

FILM FOIL

CABLE: TWISTED PAIRS

Ø DIM. "A"

PVC JACKET

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.

DESCRIBE WIRE
DETAIL

Ø .026 ±.002
[0.66 ±0.05]

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.

2

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

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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.

2

ENVIRONMENTAL :

TEMPERATURE RATING: USA: CL2: 75°C CANADA: 80°C
FLAMMABILITY RATING: USA: N.E.C. 725, CL2
CANADA: FT1

TABLE 2

PAIR IDENTIFICATION

PAIR	COND	1st CONDUCTOR	COND	2nd CONDUCTOR	PAIR	COND	1st CONDUCTOR	COND	2nd CONDUCTOR	
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12	23	RED	BROWN	24	BROWN	RED	37	73	GRAY	WHITE
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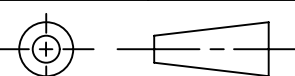
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Austin, TX 78753-5380
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D		116059	MAY 07, 2024		JNC	FJR
C		41014	REVISE AND REDRAW		TB	TB
B		23275	MAY 24, 2012 CORRECT ERRORS		RE	RE
			APR 24, 2009 REVISE TABLE AND NOTES			
DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION
ADDRESS CODES		DIVISION CODE		DRFT	CHKD	CHKD
				DATE MAY 07, 2024	DATE	DATE
				APPR. F. RODRIGUEZ	DATE MAY 07, 2024	
DIVISION		DIVISION CODE				
DO NOT SCALE DRAWING		TOLERANCES EXCEPT AS NOTED		 3M Center St. Paul, MN 55144 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.		
 THIRD ANGLE PROJECTION		INCHES .00 ± .01 0.05 ± .05 .000 ± .010 .0000 ± .0005		TITLE SHIELDED/JACKETED, ROUND, DISC. WIRE CABLE, 28AWG		
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ± .0 ± .00 ± .000 ±		CAGE NUMBER SIZE DRAWING NO. D 78-5100-0388-8		
MAX. SURFACE ROUGHNESS ALL SURFACES ✓ MARKED ONLY		ANGLES		MODEL 3600X		
				DET. SHTS. YES ☐ NO ☒ SHT 2 OF 2		