

OPTIONAL DRAIN WIRE  
(SEE NOTE 3)

RELEASE PAPER  
(MFG. OPTION)

BRAID

FILM FOIL

CONDUCTORS

CABLE:  
TWISTED PAIRS

.026 [ 0.66 ] MIN.  
THICKNESS  
PVC JACKET

Ø DIM. "A"

PVC JACKET

RELEASE PAPER  
(MFG. OPTION)

BRAID

FILM FOIL

CABLE:  
TWISTED PAIRS

3600X/XX XX DW

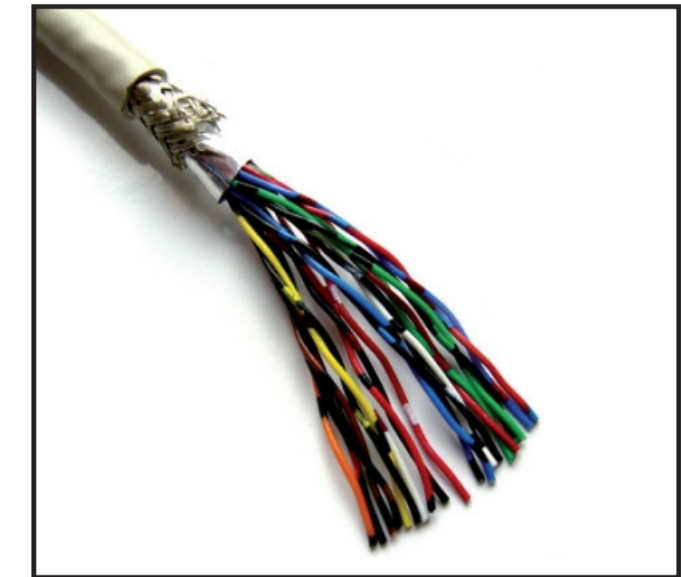
NUMBER OF CONDUCTORS  
(SEE TABLE 1)

DESCRIBE WIRE DETAIL

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	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

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NOTES	
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.
3	OPTIONAL DRAIN WIRE, SPECIAL ORDER: 28 AWG, 7 X 36 AWG (7 X Ø0.127) TPC.



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




	UNBALANCED	BALANCED
CHARACTERISTIC IMPEDANCE:	58 $\Omega$	91 $\Omega$
CAPACITANCE:	29.2 pF/ft [ 95.8 pF/m ]	18.5 pF/ft [ 60.7 pF/m ]
INDUCTANCE:	0.10 $\mu$ H/ft [ 0.33 $\mu$ H/m ]	0.15 $\mu$ H/ft [ 0.49 $\mu$ 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 CONDUCTORS WITHIN A PAIR WITH ONE CONDUCTOR CONNECTED TO THE SHIELD.  
BALANCED IS MEASURED BETWEEN CONDUCTORS WITHIN A PAIR WITH THE SHIELD FLOATING.

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

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

TABLE 1		
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 ]

DESIGN REFERENCE		NEXT ASSEMBLY		REV	ECO	ISSUE DATE AND DESCRIPTION		DRFT	CHKD
ACCESS CODES				DRFT	CASTIGLIONE		DATE	MFO	DATE
				CHKD			DATE	APPRV. F. RODRIGUEZ	DATE MAY 07, 2024
DIVISION		DIVISION CODE DEPP		 3M Center St. Paul, MN 55144			© 3M COPYRIGHT 2025 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.		
DO NOT SCALE DRAWING		SCALE							
 THIRD ANGLE PROJECTION INTERPRET PER ASME Y14.5 - 2018		TOLERANCES EXCEPT AS NOTED		TITLE  SHIELDED/JACKETED, ROUND, DISC. WIRE CABLE, 28AWG		CAGE NUMBER SIZE DRAWING NO. 578-5100-0388-8		REV. D	
		INCHES .00 ± .01 .00 ± .05 .000 ± .010 .0000 ± .0005							
MAX SURFACE ROUGHNESS  ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY		MILLIMETERS 0 ± .00 ± .000 ±		MODEL 3600X		DET. STS <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO		SHT 1 OF 2	
		ANGLES ±							

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

28 AWG STRANDED, TWISTED PAIR, PVC/PVC

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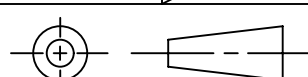
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D		116059	MAY 07, 2024		JNC	FJR
C		41014	REVISE AND REDRAW		TB	TB
B		23275	MAY 24, 2012 CORRECT ERRORS		RE	RE
REV		ECO	APR 24, 2009 REVISE TABLE AND NOTES		DRFT	CHKD
ACCESS CODES		DRFT	C		DATE	DATE
		CHKD	CASTIGLIONE		DATE	MAY 07, 2024
DIVISION		CHKD	DATE		APPRV. F. RODRIGUEZ	DATE MAY 07, 2024
DO NOT SCALE DRAWING		DIVISION CODE DEPT		TOLERANCES EXCEPT AS NOTED		
		INCHES		TITLE		
THIRD ANGLE PROJECTION ASME Y14.5 - 2018		.0 ±.1 .00 ±.05 .000 ±.010 .0000 ±.0005		SHIELDED/JACKETED, ROUND, DISC. WIRE CABLE, 28AWG		
INTERPRET PER ASME Y14.5 - 2018		MILLIMETERS 0 ± .0 .00 .000		CAGE NUMBER		
MAX. SURFACE ROUGHNESS <input type="checkbox"/> ALL SURFACES <input checked="" type="checkbox"/> MARKED ONLY		ANGLES ±		SIZE		
				DRAWING NO.		
				D		
		MODEL		3600X		
				DET.		
				LISTS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
				SHT 2 OF 2		