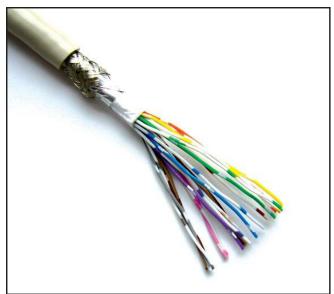
# 3M<sup>™</sup> Round, Shielded/Jacketed, Disc. Wire Cable

28 AWG Stranded, Twisted Pair, PO/PVC



- Dual shielding provides 35 db average shielding effectiveness
- · Wires are color coded for easy identification
- Meets external wiring requirements of National Electrical Code, Article 725 (CL2)
- UL listed for US and Canadian markets
- Please contact your 3M sales representative for variations not described in this specification.
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: April 24, 2012

TS-0826-C Sheet 1 of 3

3644X Series

### **Physical**

Jacket Material:	Polyvinyl Chloride (PVC)
Color:	Beige
Primary Material:	Polyolefin (PO)
Marking:	
Standard:	(UL) CL2 75C 28 AWG 3M XX C <b>%</b> AWM IIA/B 80C 150V FT1 EU <50V (where XX may be NU or NW)
<b>Conductors:</b>	28 AWG 7 × 36 [ 7 × 0.127 ] 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	Canada: 150V EU: <50V
<b>Insulation Resistance:</b>	(Primary Cable) > $1 \times 10^{10}$	Ω/10 ft. [ 3 m ]
Characteristic Impedance:	Unbalanced 63 Ω	Balanced 100 Ω
Capacitance:	24.2 pF/ft [ 79.4 pF/m ]	15.3 pF/ft [ 50.2 pF/m ]
Inductance:	0.10 µH/ft [ 0.33 µH/m ]	0.15 μH/ft [ 0.49 μH/m ]
<b>Propagation Delay:</b>	1.54 ns/ft [ 5.05 ns/m ]	1.54 ns/ft [ 5.05 ns/m ]
Velocity of Propagation:	66%	66%

Note: Unbalanced is measured between ground-signal-ground conductors, with shield grounded. Balanced is measured between signal conductors within a pair, with the shield floating.

### Environmental

**Temperature Rating:** USA: CL2: 75°C Max **Flammability Rating:** USA: N.E.C. 725, CL2 Canada: 80°C Canada: FT1

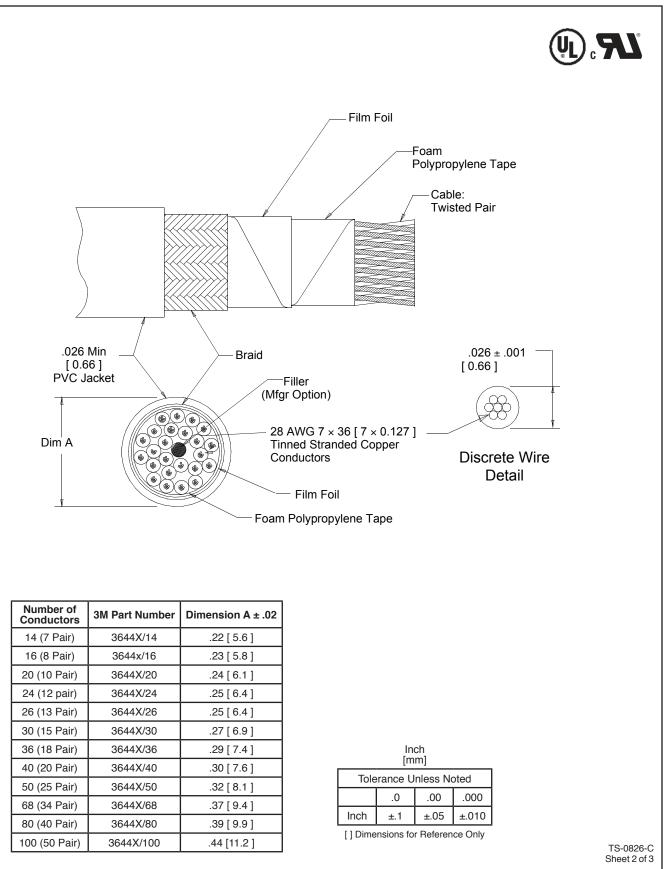
UL File No.: E118773, Power Limited Circuit Cable; CL2

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## 3M<sup>™</sup> Round, Shielded/Jacketed, Disc. Wire Cable

28 AWG Stranded, Twisted Pair, PO/PVC

3644X Series



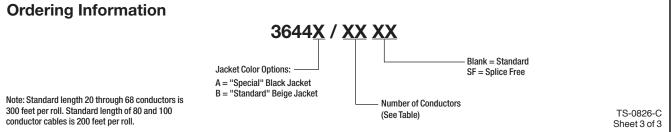
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## 3M<sup>™</sup> Round, Shielded/Jacketed, Disc. Wire Cable

28 AWG Stranded, Twisted Pair, PO/PVC

3644X Series

	Pair Identification							
Pair	Cond	1st Conductor		Cond	2nd C	onductor		
Fair	Conu	Solid	Band	Cona	Solid	Band		
1	1	White	Tan	2	Tan	White		
2	3	White	Brown	4	Brown	White		
3	5	White	Pink	6	Pink	White		
4	7	White	Orange	8	Orange	White		
5	9	White	Yellow	10	Yellow	White		
6	11	White	Green	12	Green	White		
7	13	White	Blue	14	Blue	White		
8	15	White	Violet	16	Violet	White		
9	17	White	Gray	18	Gray	White		
10	19	Tan	Brown	20	Brown	Tan		
11	21	Tan	Pink	22	Pink	Tan		
12	23	Tan	Orange	24	Orange	Tan		
13	25	Tan	Yellow	26	Yellow	Tan		
14	27	Tan	Green	28	Green	Tan		
15	29	Tan	Blue	30	Blue	Tan		
16	31	Tan	Violet	32	Violet	Tan		
17	33	Tan	Gray	34	Gray	Tan		
18	35	Brown	Pink	36	Pink	Brown		
19	37	Brown	Orange	38	Orange	Brown		
20	39	Brown	Yellow	40	Yellow	Brown		
21	41	Brown	Green	42	Green	Brown		
22	43	Brown	Blue	44	Blue	Brown		
23	45	Brown	Violet	46	Violet	Brown		
24	47	Brown	Gray	48	Gray	Brown		
25	49	Pink	Orange	50	Orange	Pink		
26	51	Pink	Yellow	52	Yellow	Pink		
27	53	Pink	Green	54	Green	Pink		
28	55	Pink	Blue	56	Blue	Pink		
29	57	Pink	Violet	58	Violet	Pink		
30	59	Pink	Gray	60	Gray	Pink		
31	61	Orange	Yellow	62	Yellow	Orange		
32	63	Orange	Green	64	Green	Orange		
33	65	Orange	Blue	66	Blue	Orange		
34 35	67	Orange	Violet	68	Violet	Orange		
	69	Orange	Gray	70	Gray	Orange		
36	71	Yellow	Green	72	Green Blue	Yellow		
37 38	73 75	Yellow Yellow	Blue Violet	74 76	Violet	Yellow Yellow		
39	77	Yellow	Gray	78	Gray	Yellow		
40	79	Green	Blue	80	Blue	Green		
40	81	Green	Violet	82	Violet	Green		
41	83	Green		84	Gray	Green		
42	85	Blue	Gray Violet	86	Violet	Blue		
43	87	Blue	Gray	88	Gray	Blue		
45	89	Violet		90	Gray	Violet		
45	91	White	Gray	90	Tan	-		
40	93	Gray	-	92	Brown	-		
48	95	Blue		96	Pink	-		
49	97	Violet		98	Orange	-		
50	99	Green	-	100	Yellow	_		
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