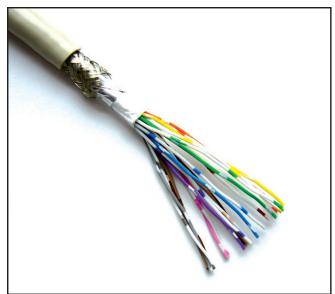
# 3M<sup>™</sup> Round, Shielded/Jacketed, Disc. Wire Cable

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>N</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

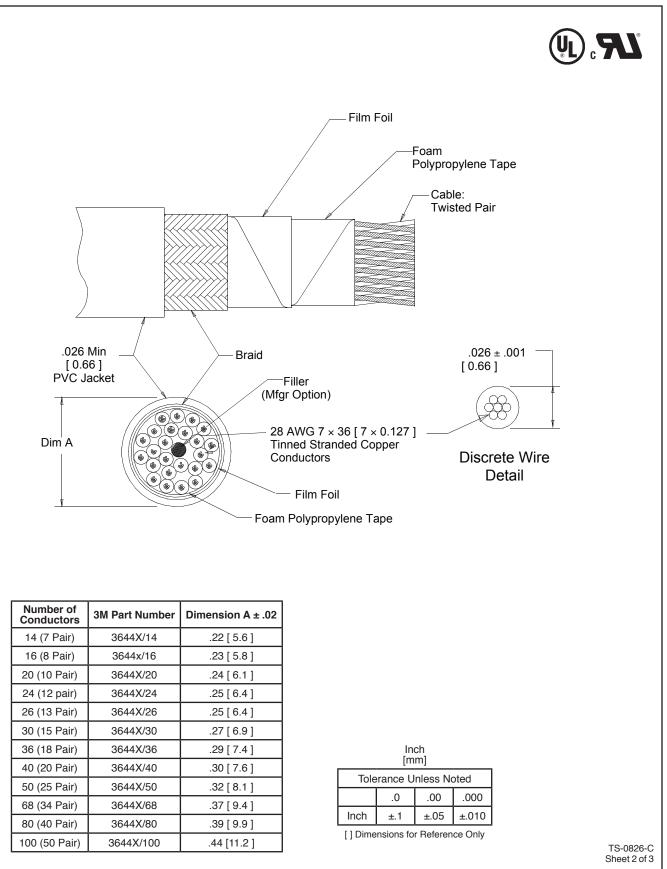
UL File No.: E118773, Power Limited Circuit Cable; CL2

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

28 AWG Stranded, Twisted Pair, PO/PVC

3644X Series



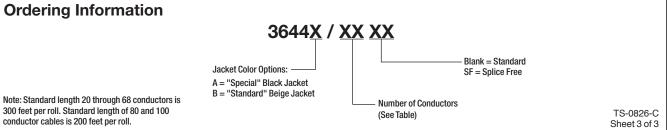
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## 3M<sup>™</sup> Round, Shielded/Jacketed, Disc. Wire Cable

28 AWG Stranded, Twisted Pair, PO/PVC

3644X Series

Pair IdentificationPairCond1st ConductorCond2nd ConductorSolidBandCondSolidBand11WhiteTan2TanWhite23WhiteBrown4BrownWhite35WhitePink6PinkWhite47WhiteOrange8OrangeWhite59WhiteYellow10YellowWhite611WhiteGreen12GreenWhite
PairCondSolidBandCondSolidBand11WhiteTan2TanWhite23WhiteBrown4BrownWhite35WhitePink6PinkWhite47WhiteOrange8OrangeWhite59WhiteYellow10YellowWhite
SolidBandSolidBand11WhiteTan2TanWhite23WhiteBrown4BrownWhite35WhitePink6PinkWhite47WhiteOrange8OrangeWhite59WhiteYellow10YellowWhite
11WhiteTan2TanWhite23WhiteBrown4BrownWhite35WhitePink6PinkWhite47WhiteOrange8OrangeWhite59WhiteYellow10YellowWhite
23WhiteBrown4BrownWhite35WhitePink6PinkWhite47WhiteOrange8OrangeWhite59WhiteYellow10YellowWhite
35WhitePink6PinkWhite47WhiteOrange8OrangeWhite59WhiteYellow10YellowWhite
47WhiteOrange8OrangeWhite59WhiteYellow10YellowWhite
5 9 White Yellow 10 Yellow White
7 13 White Blue 14 Blue White
8 15 White Violet 16 Violet White
9 17 White Gray 18 Gray White
1019TanBrown20BrownTan
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
17301813123434341835BrownPink36PinkBrown
1033BrownOrange38OrangeBrown1937BrownOrange38OrangeBrown
20 39 Brown Yellow 40 Yellow Brown
21 41 Brown Green 42 Green Brown
2141BlownGreen42GreenBlown2243BrownBlue44BlueBrown
23 45 Brown Violet 46 Violet Brown
2545BrownViolet40VioletBrown2447BrownGray48GrayBrown
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
3467OrangeViolet68VioletOrange
35 69 Orange Gray 70 Gray Orange
36 71 Yellow Green 72 Green Yellow
37 73 Yellow Blue 74 Blue Yellow
37 73 Tendow Bide 74 Bide Tendow   38 75 Yellow Violet 76 Violet Yellow
39 77 Yellow Gray 78 Gray Yellow
40 79 Green Blue 80 Blue Green
41 81 Green Violet 82 Violet Green
4181GreenViolet82VioletGreen4283GreenGray84GrayGreen
42 83 Green Gray 84 Gray Green   43 85 Blue Violet 86 Violet Blue
4365BlueViolet66VioletBlue4487BlueGray88GrayBlue
45 89 Violet Gray 90 Gray Violet
45 89 Violet Gray 90 Gray Violet   46 91 White - 92 Tan -
40 91 Wille - 92 Tall - 47 93 Gray - 94 Brown -
48 95 Blue - 96 Pink -   49 97 Violet - 98 Orange -
50 99 Green - 100 Yellow -



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