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

28 AWG Stranded, Twisted Pair, PVC/PVC

3600X Series



- Meets external wiring requirements of National Electrical Code, Article 725 (CL2)
- 28 AWG stranded wire provides flexibility
- Twisted pairs reduce crosstalk for balanced drive applications
- Dual shielding with aluminum film foil and copper braid provides excellent EMI/ESD protection
- Wires are color coded for easy identification
- 35 db average shielding effectiveness
- 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: June 1, 2012

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### **Physical**

Jacket Material: Polyvinyl Chloride (PVC); Color: Beige

Primary Material: PVC

Marking:

Standard: (UL) CL2 75C 28 AWG 3M XX

C **%** AWM IIA/B 80C 150V FT1 EU <50V

(where XX may be NU, MR or NW)

**Conductors:** 28 AWG,  $7 \times 36$  AWG [  $7 \times \emptyset$  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

**Insulation Resistance:** (Primary Cable) >  $1 \times 10^{10} \Omega/10$  ft. [3 m]

Characteristic Impedance: Unbalanced Balanced

58 Ω 91 Ω

**Capacitance:** 29.2 pF/ft [ 95.8 pF/m ] 18.5 pF/ft [ 60.7 pF/m ] **Inductance:** 0.10 μH/ft [ 0.33 μH/m ] 0.15 μH/ft [ 0.49 μH/m ]

**Propagation Delay:** 1.69 ns/ft [ 5.54 ns/m ] 1.69 ns/ft [ 5.54 ns/m ]

**Velocity of Propagation:** 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.

### **Environmental**

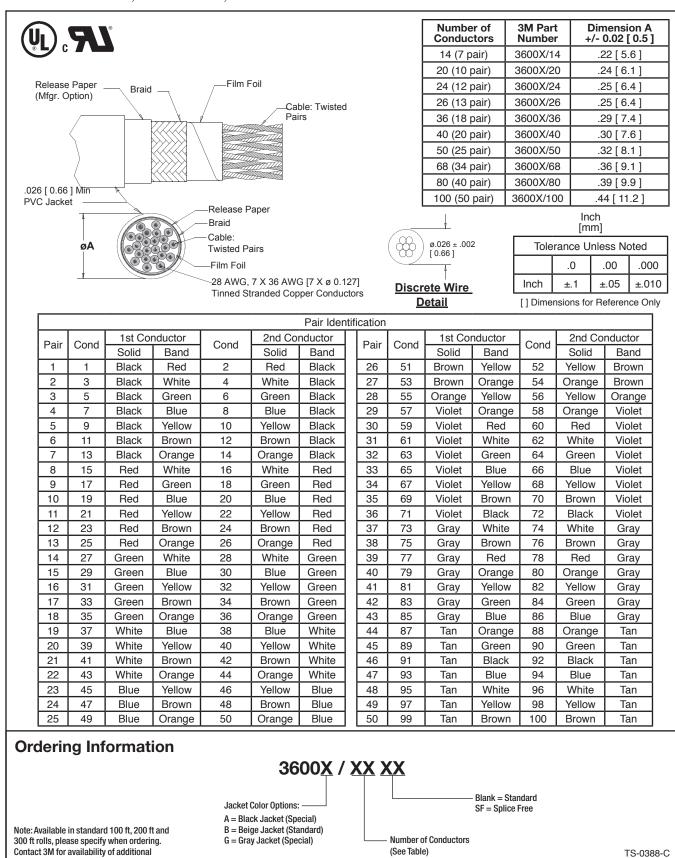
**Temperature Rating:** USA: CL2; 75°C Max Canada: +80°C **Flammability Rating:** USA: N.E.C. 725, CL2 Canada: FT1

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

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conductor counts and/or custom roll lengths.

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