3M[™] 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, 7×36 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

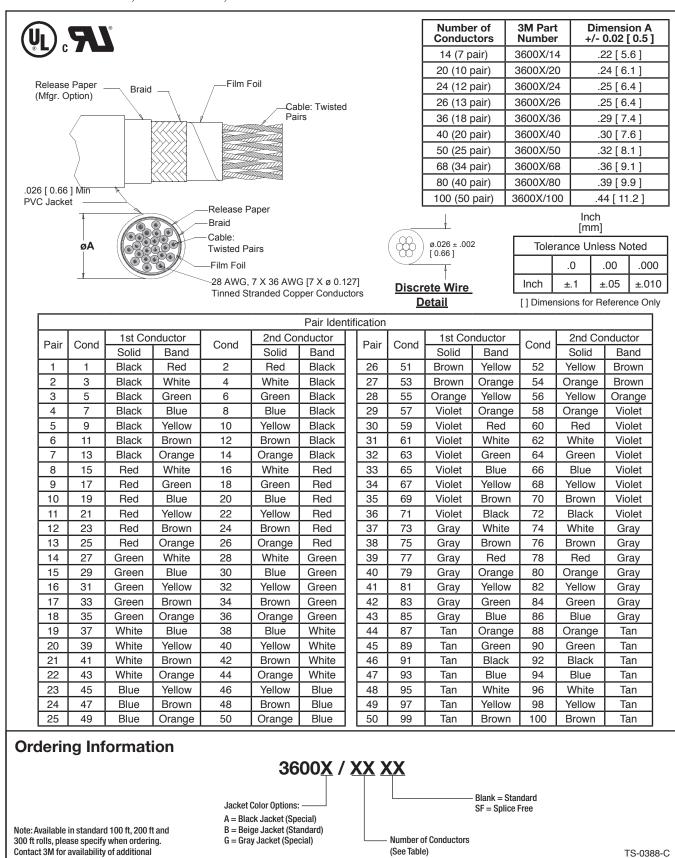
Temperature Rating: USA: CL2; 75°C Max Canada: +80°C **Flammability Rating:** USA: N.E.C. 725, CL2 Canada: FT1

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

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conductor counts and/or custom roll lengths.

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