## 3M ${ }^{\text {TM }}$ Round, Shielded/Jacketed, Flat Cable .050" 28 AWG Stranded, Mass Terminatable, PVC/PVC



## Physical

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\begin{aligned}
\text { Jaket Material: } & \text { Polyvinyl Chloride (PVC) } \\
\text { Color: } & \text { Black } \\
\text { Primary Material: } & \text { PVC } \\
\text { Color: } & \text { Gray } \\
\text { Marking Standard: } & \text { (UL) CL2 75C } 28 \text { AWG or AWM } 20267 \text { 3M NU cTS AWM IIA/B 80C 300V FT1 EU <50V } \\
\text { Conductors: } & 28 \text { AWG, } 7 \times 36 \text { AWG [ } 7 \times 00.127 \text { ] Tinned Stranded Copper } \\
\text { Shielding: } & 0.001 \text { [0.03] Thick Aluminum/Polyester Film Foil and } 90 \% \text { Coverage Tinned Copper Braid }
\end{aligned}
$$

## Electrical

| Voltage Rating: | USA: N.E.C. $725, \mathrm{CL} 2$ or AWM; 300 V | Canada: $300 \mathrm{~V} \quad \mathrm{EU}:<50 \mathrm{~V}$ |
| ---: | :--- | :--- |
| Insulation Resistance: | $>1 \times 10^{10} \Omega / 10 \mathrm{ft}$ [ 3 m$]$ |  |
|  | Unbalanced | Balanced |
| Characteristic Impedance: | $62 \Omega$ | $106 \Omega$ |
| Capacitance: | $27.7 \mathrm{pF} / \mathrm{ft}[90.88 \mathrm{pF} / \mathrm{m}]$ | $15.2 \mathrm{pF} / \mathrm{ft}[49.9 \mathrm{pF} / \mathrm{m}]$ |
| Inductance: | $0.11 \mu \mathrm{H} / \mathrm{ft}[0.35 \mu \mathrm{H} / \mathrm{m}]$ | $0.17 \mu \mathrm{H} / \mathrm{ft}[0.57 \mu \mathrm{H} / \mathrm{m}]$ |
| Propagation Delay: | $1.72 \mathrm{~ns} / \mathrm{ft}[5.64 \mathrm{~ns} / \mathrm{m}]$ | $1.62 \mathrm{~ns} / \mathrm{ft}[5.31 \mathrm{~ns} / \mathrm{m}]$ |
| Velocity of Propagation: | $59 \%$ | $62 \%$ |

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

$$
\begin{array}{lc}
\text { Temperature Rating: } & \text { USA: }-20^{\circ} \mathrm{C} \text { to }+105^{\circ} \mathrm{C} \\
\text { Flammability Rating: } & \text { USA: } \mathrm{VW}-1
\end{array}
$$

*"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive will be in accordance with the Warranty stated below.
UL File No.: E118773, Power Limited Circuit Cable: CL2 (or AWM Style 20267)

# $3 \mathrm{M}^{\mathrm{TM}}$ Round, Shielded/Jacketed, Flat Cable 

 . 050 " 28 AWG Stranded, Mass Terminatable, PVC/PVC3659 Series

1. Red marking on one edge of primary cable designates wire \#1.
2. Dimension B pertains to bonded area only.

## Ordering Information

3659 / XX XX X00 XX


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