# .050" Round, Shielded/Jacketed, Flat Cable 

 28 AWG Stranded, Mass-Term, PVC/PVC3659 Series


- Round construction permits easier routing
- 28 AWG wire on .050 inch pitch permits mass termination to broad line of IDC connectors
- Continuous split/bond repeat allows for mass termination on 2.4 inch centers (approximate)
- Primary cable is zippable for branching or discrete terminations
- Meets external wiring requirements of National Electrical Code, Article 725 (CL2)
- UL listed for USA and Canadian markets
- Dual shielding provides 35 db average shielding effectiveness


## Physical

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            Jacket
            Material: Polyvinyl Chloride (PVC)
            Color: Black
Primary Material: PVC
            Color: Gray
            Marking
            Standard:(UL) CL2 75C 28 AWG or AWM 20267 3M NU CE\ AWM IIA/B 80C 300V FT1
                    EU <50V
Conductors: 28 AWG 7 < 36 [7\times0.127 ] Tinned Stranded Copper
            Shielding: . 001 [ 0.03 ] Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned
                    Copper Braid
```


## Electrical

Voltage Rating: USA: N.E.C. 725, CL2 or AWM; 300V Canada: 300V

EU: <50V

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 $.13 \mu \mathrm{H} / \mathrm{ft}$. [ $0.43 \mu \mathrm{H} / \mathrm{m}$ ] . $20 \mu \mathrm{H} / \mathrm{ft}$. [ $0.66 \mu \mathrm{H} / \mathrm{m}$ ]
Propagation Delay $1.72 \mathrm{~ns} / \mathrm{ft}$. [ $5.64 \mathrm{~ns} / \mathrm{m}$ ] $1.62 \mathrm{~ns} / \mathrm{ft}$. [ $5.32 \mathrm{~ns} / \mathrm{m}$ ]
Velocity of Propagation $59 \% \quad 62 \%$
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

Temperature Rating: USA: CL2; $75^{\circ} \mathrm{C}$ Max or AWM; $-20^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$ Canada: $80^{\circ} \mathrm{C}$
Flammability Rating: USA: N.E.C. 725, CL2 Canada: FTI
UL File No.: E118773, Power Limited Circuit Cable: CL2 (or AWM Style 20267)


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