

# 3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, TPE

3355 Series



- 28 AWG wire on .050 inch centers permits mass terminations to a broad line of IDC connectors
- TPE insulation provides excellent transmission properties at a low cost
- Zippable for branching or discrete terminations.
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3Mconnector.com](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: March 15, 2010

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## Physical

### Insulation:

Material: Thermoplastic Elastomer (TPE)

Color: Gray

### Marking:

Standard: None

**Conductors:** 28 AWG, 7 × 36 [ 7 × 0.127 ] Tinned Stranded Copper

## Electrical

**Voltage Rating:** USA: 300V      EU: <50V

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

### Unbalanced

**Characteristic Impedance:** 117  $\Omega$

**Capacitance:** 11.7 pF/ft [ 38.4 pF/m ]

**Inductance:** 0.16  $\mu\text{H}/\text{ft}$  [ 0.52  $\mu\text{H}/\text{m}$  ]

**Propagation Delay:** 1.37 ns/ft [ 4.49 ns/m ]

**Velocity of Propagation:** 74%

Note: Unbalanced is measured between ground-signal-ground conductors.

## Environmental

**Temperature Rating:** -40°C to +105°C

**Flammability Rating:** USA: UL Horizontal

UL File No.: E42769, Style No: 20297

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Number of Conductors	3M Part Number	Dimension A	Dimension B
09	3355/09	0.450 ± .010 [ 11.43 ]	0.400 ± .007 [ 10.16 ]
10	3355/10	0.500 ± .010 [ 12.70 ]	0.450 ± .007 [ 11.43 ]
14	3355/14	0.700 ± .010 [ 17.78 ]	0.650 ± .007 [ 16.51 ]
15	3355/15	0.750 ± .010 [ 19.05 ]	0.700 ± .007 [ 17.78 ]
16	3355/16	0.800 ± .015 [ 20.32 ]	0.750 ± .011 [ 19.05 ]
18	3355/18	0.900 ± .015 [ 22.86 ]	0.850 ± .011 [ 21.59 ]
20	3355/20	1.000 ± .015 [ 25.40 ]	0.950 ± .011 [ 24.13 ]
24	3355/24	1.200 ± .015 [ 30.48 ]	1.150 ± .011 [ 29.21 ]
25	3355/25	1.250 ± .015 [ 31.75 ]	1.200 ± .011 [ 30.48 ]
26	3355/26	1.300 ± .015 [ 33.02 ]	1.250 ± .011 [ 31.75 ]
30	3355/30	1.500 ± .020 [ 38.10 ]	1.450 ± .015 [ 36.83 ]
34	3355/34	1.700 ± .020 [ 43.18 ]	1.650 ± .015 [ 41.91 ]
36	3355/36	1.800 ± .020 [ 45.72 ]	1.750 ± .015 [ 44.45 ]
37	3355/37	1.850 ± .020 [ 46.99 ]	1.800 ± .015 [ 45.72 ]
40	3355/40	2.000 ± .020 [ 50.80 ]	1.950 ± .015 [ 49.53 ]
50	3355/50	2.500 ± .020 [ 63.50 ]	2.450 ± .015 [ 62.23 ]
60	3355/60	3.000 ± .020 [ 76.20 ]	2.950 ± .015 [ 74.93 ]
64	3355/64	3.200 ± .020 [ 81.28 ]	3.150 ± .015 [ 80.01 ]

Inch  
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.05	±.010

[ ] Dimensions for Reference Only



Note: Blue marking on one edge of cable designates wire #1.

## Ordering Information

**3355 / XX XX**

Number of Conductors  
(See Table)

Blank = Standard  
SF = Splice Free

Note: Available in common lengths of 100 ft/roll or 300 ft/roll (30 m /roll or 91 m/roll), please specify when ordering.

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**3M Electronics Solutions Division**

6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3Mconnector.com](http://www.3Mconnector.com)

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