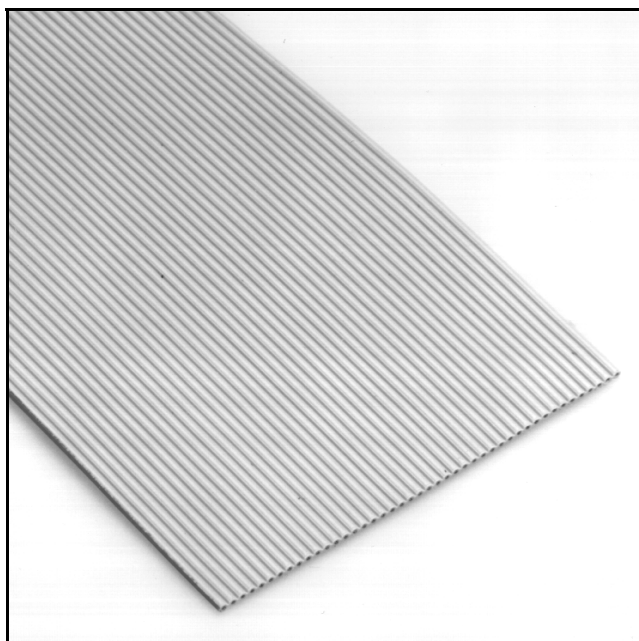


# 3M™ Round Conductor Flat Cable

1.0 mm 28 AWG Stranded, PVC

3625 Series



- 28 AWG stranded conductors on 1 mm wire spacing is designed for mass termination to metric connectors
- Stranded wire provides flexibility and extended product life
- Zippable for branching or discrete termination

Date Modified: November 14, 2006

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## Physical

### Insulation

Material: Polyvinyl Chloride (PVC)

Color: Gray

### Marking:

Standard: None

CSA Option: **AWM** 2651 105C 300V VW1 3M NU C **AWM** IA 105C 300V FT1 EU <50V

**Conductors:** 28 AWG, 7 x 36 AWG [ 7 x  $\phi$  0.127 ] Tinned Stranded Copper

## Electrical

**Voltage Rating:** USA: 300V

Canada: 300V

EU: <50V

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

### Unbalanced

### Balanced

**Characteristic Impedance:** 89  $\Omega$

146  $\Omega$

**Capacitance:** 54.5 pF/m [ 16.6 pF/ft ] 32.2 pF/m [ 9.8 pF/ft ]

**Inductance:** 0.43  $\mu\text{H/m}$  [ 0.14  $\mu\text{H/ft}$  ] 0.68  $\mu\text{H/m}$  [ 0.21  $\mu\text{H/ft}$  ]

**Propagation Delay:** 4.86 ns/m [ 1.48 ns/ft ] 4.69 ns/m [ 1.43 ns/ft ]

**Velocity of Propagation:** 69%

71%

Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between signal conductors within a pair.

## Environmental

**Temperature Rating:** -20°C to +105°C

**Flammability Rating:** USA: VW-1 Canada: FT1

"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M. Contain decaBDE. Compliant per EU Commission Decision 2005/17/EC, Annex Item 9a - Exemption for decaBDE in Polymeric Applications.

UL File No.: E42769, Style No.: 2651

**3M**

**Interconnect Solutions**

<http://www.3M.com/interconnects/>

3M is a trademark of 3M Company.


For technical, sales or ordering information call

**800-225-5373**

# 3M™ Round Conductor Flat Cable

1.0 mm 28 AWG Stranded, PVC

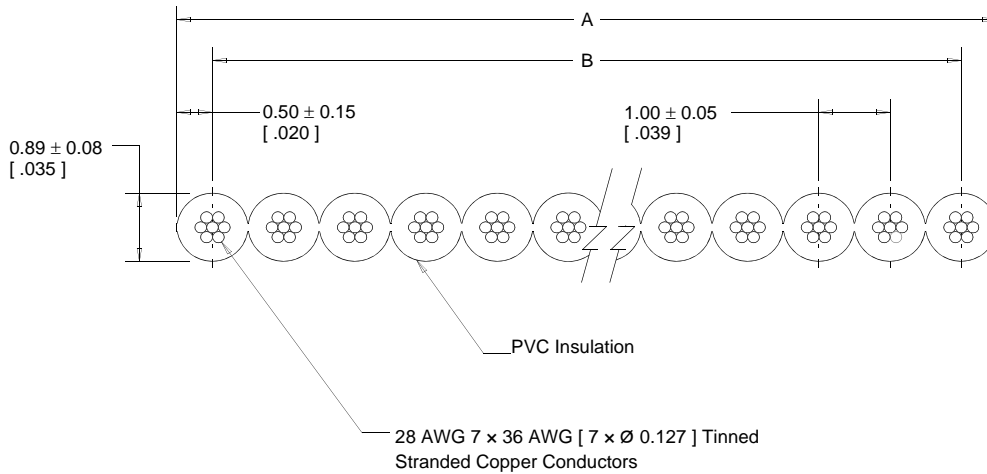
3625 Series

mm [inch]			
Tolerance Unless Noted			
mm	.0	.00	.000
	±.3	±.13	

[ ] Dimensions for Reference only



Number of Conductors	3M Part Number	Dimension A	Dimension B
06	3625/06	6.00 ± 0.20 [ .236 ]	5.00 ± 0.18 [ .197 ]
08	3625/08	8.00 ± 0.20 [ .315 ]	7.00 ± 0.18 [ .276 ]
10	3625/10	10.00 ± 0.20 [ .394 ]	9.00 ± 0.18 [ .354 ]
12	3625/12	12.00 ± 0.20 [ .472 ]	11.00 ± 0.18 [ .433 ]
14	3625/14	14.00 ± 0.20 [ .551 ]	13.00 ± 0.18 [ .512 ]
16	3625/16	16.00 ± 0.22 [ .630 ]	15.00 ± 0.20 [ .591 ]
18	3625/18	18.00 ± 0.22 [ .709 ]	17.00 ± 0.20 [ .669 ]
20	3625/20	20.00 ± 0.22 [ .787 ]	19.00 ± 0.20 [ .748 ]
22	3625/22	22.00 ± 0.22 [ .866 ]	21.00 ± 0.20 [ .827 ]
24	3625/24	24.00 ± 0.22 [ .945 ]	23.00 ± 0.20 [ .906 ]
26	3625/26	26.00 ± 0.22 [ 1.024 ]	25.00 ± 0.20 [ .984 ]
28	3625/28	28.00 ± 0.22 [ 1.102 ]	27.00 ± 0.20 [ 1.063 ]
30	3625/30	30.00 ± 0.25 [ 1.181 ]	29.00 ± 0.23 [ 1.142 ]
32	3625/32	32.00 ± 0.25 [ 1.260 ]	31.00 ± 0.23 [ 1.220 ]
34	3625/34	34.00 ± 0.25 [ 1.339 ]	33.00 ± 0.23 [ 1.299 ]
36	3625/36	36.00 ± 0.25 [ 1.417 ]	35.00 ± 0.23 [ 1.378 ]
38	3625/38	38.00 ± 0.25 [ 1.496 ]	37.00 ± 0.23 [ 1.457 ]
40	3625/40	40.00 ± 0.25 [ 1.575 ]	39.00 ± 0.23 [ 1.535 ]
42	3625/42	42.00 ± 0.25 [ 1.654 ]	41.00 ± 0.23 [ 1.614 ]
44	3625/44	44.00 ± 0.25 [ 1.732 ]	43.00 ± 0.23 [ 1.693 ]
46	3625/46	46.00 ± 0.25 [ 1.811 ]	45.00 ± 0.23 [ 1.772 ]
48	3625/48	48.00 ± 0.25 [ 1.890 ]	47.00 ± 0.23 [ 1.850 ]
50	3625/50	50.00 ± 0.25 [ 1.969 ]	49.00 ± 0.23 [ 1.929 ]



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

## Ordering Information

Blank = Standard  
C = Canadian Certified Version

**3625/XX XXX M XX**

Blank = Standard  
SF = Splice Free

Length of Roll in Feet  
30 = 30 meters Standard  
100 = 100 meters Standard

Note: Contact 3M for availability of additional conductor counts and/or custom roll lengths.

Number of Conductors  
(See Table)

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