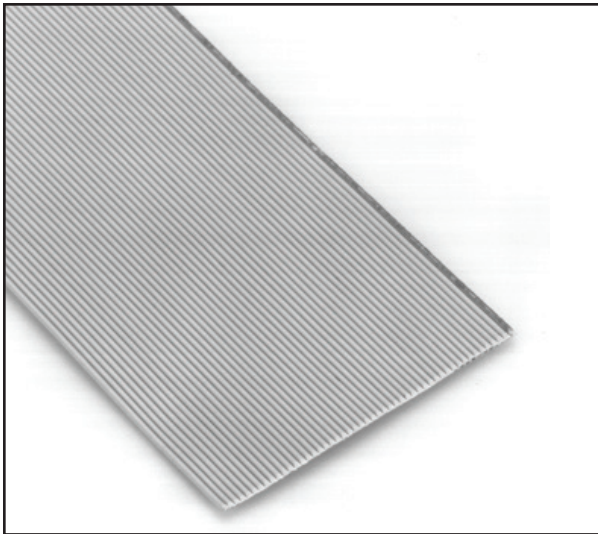


# 3M™ Round Conductor Flat Cable

.025" 30 AWG Stranded, PVC

3754 Series



- Close spacing permits higher signal density
- PVC insulation provides excellent flexibility
- 30 AWG stranded on .025 inch spacing allows for mass termination as well as increased flexibility
- Recommended for use with the 82XXX-600X Series .050" x .100" Tripolarized Wiremount Mini Socket (82XXX-600X) and Pak 25 (P25E-XXX-STGF)
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: November 1, 2013

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## Physical

### Insulation:

Material: Polyvinyl Chloride (PVC)

Color: Gray

### Marking:

Standard: None

Conductors: 30 AWG 7 X 38 [ 7 X 0.102 ] Tinned Stranded Copper

## Electrical

**Voltage Rating:** USA: 30V

EU: <50V

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

**Characteristic Impedance: Unbalanced**  
73  $\Omega$

**Balanced**  
122  $\Omega$

**Capacitance:** 20.8 pF/ft (68.2 pF/m)

12.0 pF/ft (39.4 pF/m)

**Inductance:** .11  $\mu\text{H/ft}$  (0.36  $\mu\text{H/m}$ )

.18  $\mu\text{H/ft}$  (0.59  $\mu\text{H/m}$ )

**Propagation Delay:** 1.51 ns/ft (4.95 ns/m)

1.45 ns/ft (4.76 ns/m)

**Velocity of Propagation:** 67%

70%

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

UL File No.: E42769, Style No.: 20596

**3M**

Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnectors.com>

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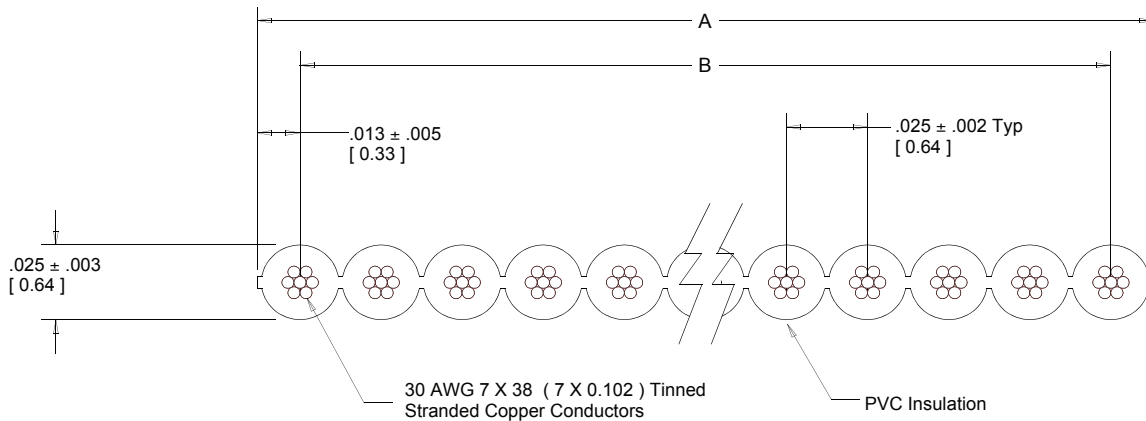


Inch  
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.01	±.005

[ ] Dimensions for Reference Only

Number of Conductors	3M Part Number	Dimension A	Dimension B
10	3754/10	0.250 ± .006 [ 6.350 ]	0.225 ± .004 [ 5.72 ]
12	3754/12	0.300 ± .006 [ 7.62 ]	0.275 ± .004 [ 6.99 ]
14	3754/14	0.350 ± .006 [ 8.89 ]	0.325 ± .004 [ 8.26 ]
16	3754/16	0.400 ± .006 [ 10.16 ]	0.375 ± .004 [ 9.53 ]
20	3754/20	0.500 ± .006 [ 12.70 ]	0.475 ± .004 [ 12.07 ]
26	3754/26	0.650 ± .006 [ 16.51 ]	0.625 ± .004 [ 15.88 ]
30	3754/30	0.750 ± .006 [ 19.05 ]	0.725 ± .006 [ 18.42 ]
32	3754/32	0.800 ± .008 [ 20.32 ]	0.775 ± .006 [ 19.69 ]
34	3754/34	0.850 ± .009 [ 21.59 ]	0.825 ± .006 [ 20.96 ]
36	3754/36	0.900 ± .009 [ 22.86 ]	0.875 ± .006 [ 22.23 ]
40	3754/40	1.000 ± .009 [ 25.40 ]	0.975 ± .006 [ 24.77 ]
50	3754/50	1.250 ± .009 [ 31.75 ]	1.225 ± .006 [ 31.12 ]
52	3754/52	1.300 ± .009 [ 33.02 ]	1.275 ± .006 [ 32.39 ]
60	3754/60	1.500 ± .012 [ 38.10 ]	1.475 ± .009 [ 37.47 ]
68	3754/68	1.700 ± .012 [ 43.18 ]	1.675 ± .009 [ 42.55 ]
80	3754/80	2.000 ± .015 [ 50.80 ]	1.975 ± .011 [ 50.17 ]
100	3754/100	2.500 ± .015 [ 63.50 ]	2.475 ± .012 [ 62.87 ]



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

## Ordering Information

**3754/XX**

Number of Conductors  
(See Table)

Note: Available in standard 100 ft or 300 ft rolls, please specify when ordering. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

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**3M Electronics Solutions Division**

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

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