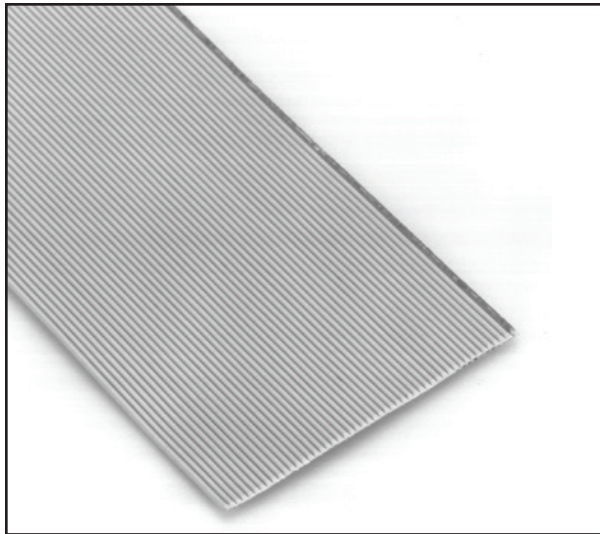


# 3M™ Round Conductor Flat Cable

.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

TS-0875-E  
Sheet 1 of 3

## 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  $\mu\text{H}/\text{ft}$  (0.36  $\mu\text{H}/\text{m}$ )

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

**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



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

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

# 3M™ Round Conductor Flat Cable

.025" 30 AWG Stranded, PVC

3754 Series

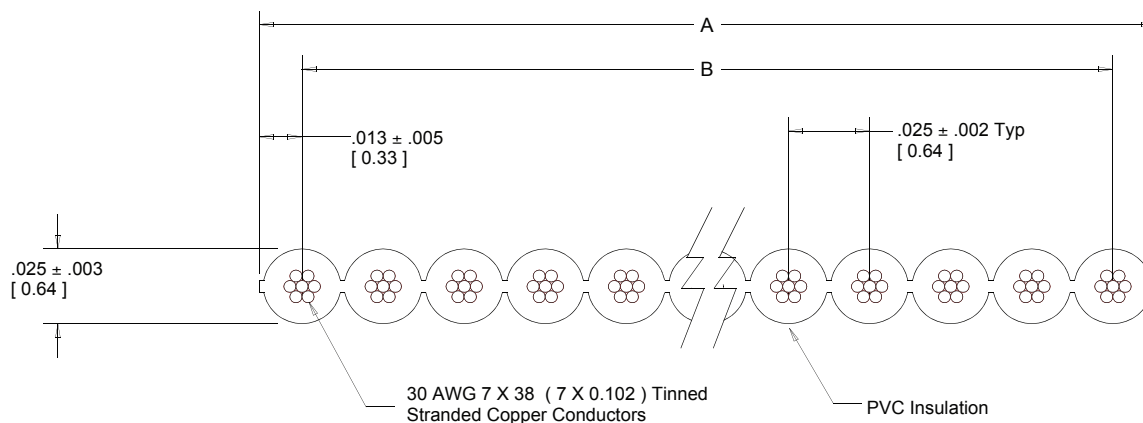


Inch  
[mm]

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.

TS-0875-E  
Sheet 2 of 3



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

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

#### **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

#### **Warranty; Limited Remedy; Limited Liability.**

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



#### **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)

Please recycle. Printed in USA.  
© 3M 2013. All rights reserved.  
RIA-2217B-E

3M is a trademark of 3M Company.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

3M:

[2049/50-300](#) [2049/68-300](#) [2049/80-300](#) [2049/20-300](#) [2049/26-300](#) [2049/36-300](#) [2049/40-300](#) [2049/60-300](#)  
[10226-1A10PL](#) [10226-55F3PC](#) [10250-55F3PC](#) [3754/32](#)