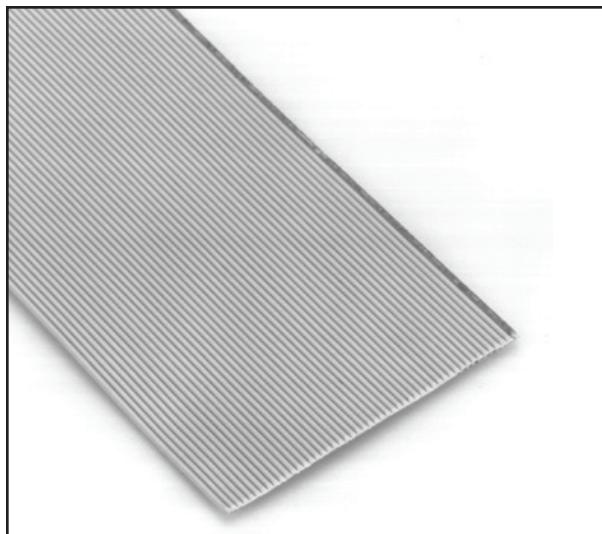


# 3M™ Round Conductor Flat Cable

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

**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

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Interconnect Solutions  
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.025" 30 AWG Stranded, PVC

3754 Series



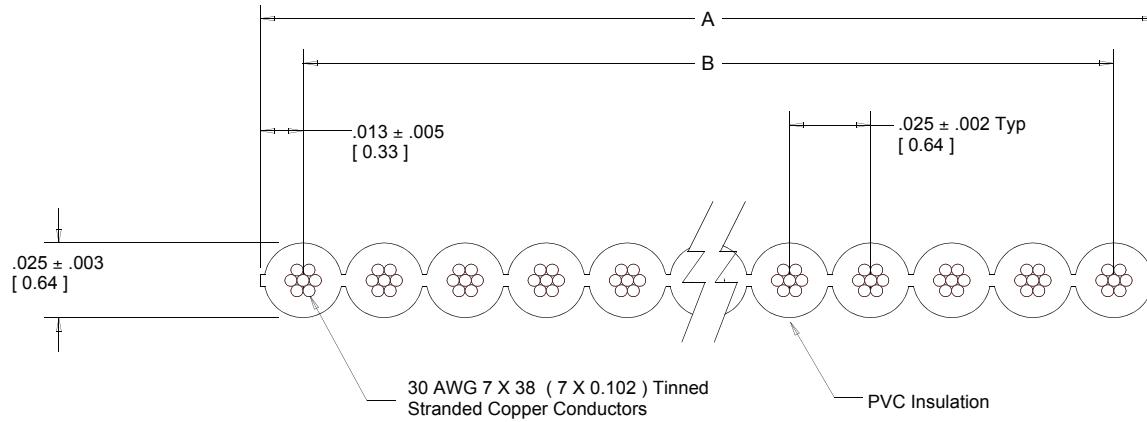
Inch  
[mm]

Tolerance Unless Noted

	.0	.00	.000
Inch	$\pm .1$	$\pm .01$	$\pm .005$

[ ] Dimensions for Reference Only

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

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