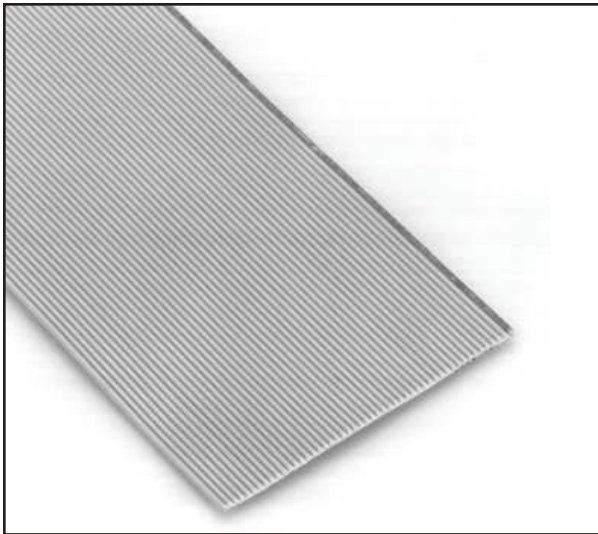


3M™ Round Conductor Flat Cable

.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 for compliance information (RIA E1 & C1 apply)

Date Modified: November 1, 2013

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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 Ω

Balanced
122 Ω

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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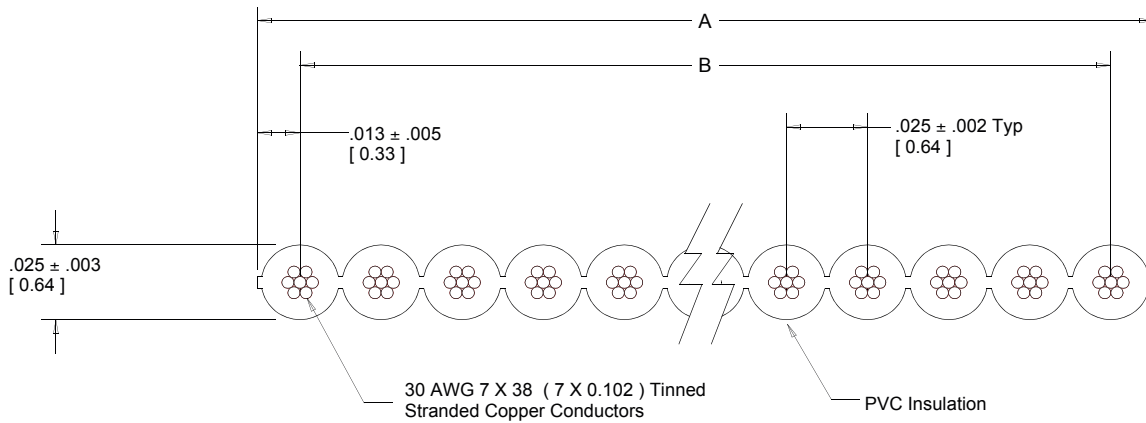


Inch
[mm]

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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Sheet 2 of 3

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