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

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 x 10⁶Ω/10 ft [3 m]

Characteristic Impedance:
- Unbalanced: 73 Ω
- Balanced: 122 Ω

Capacitance:
- Unbalanced: 20.8 pF/ft (68.2 pF/m)
- Balanced: 12.0 pF/ft (39.4 pF/m)

Inductance:
- Unbalanced: .11 μH/ft (0.36 μH/m)
- Balanced: .18 μH/ft (0.59 μH/m)

Propagation Delay:
- Unbalanced: 1.51 ns/ft (4.95 ns/m)
- Balanced: 1.45 ns/ft (4.76 ns/m)

Velocity of Propagation:
- Unbalanced: 67%
- Balanced: 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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Number of Conductors | 3M Part Number | Dimension A | Dimension B
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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 ± .008 [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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