3M™ Round Conductor Flat Cable

.025" 30 AWG Stranded, TPE

3756 Series

- .025 inch wire spacing increases signal density
- TPE insulation provides excellent transmission properties
- 30 AWG stranded conductors on .025 inch wire spacing is designed for mass termination and flexibility
- Meets the SCSI-3 characteristic impedance requirements
- 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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Physical

Insulation:
- Material: Thermoplastic Elastomer (TPE)
- Color: Gray

Marking:
- Standard: None

Canadian Option: \textcopyright AWM 20297 105C 150V HB 3M NU C \textcopyright AWM IA 105C 150V FT2 EU <50V

Conductors: 30 AWG, 7 x 38 AWG [ 7 x \( \varnothing 0.102 \) ] Tinned Stranded Copper

Electrical

Voltage Rating: USA: 150V  Canada: 150V  EU: <50V

Insulation Resistance: > 1 x 10^10 \( \Omega \)/10 ft. [ 3 m ]

Characteristic Impedance:
- Unbalanced: 82 \( \Omega \)
- Balanced: 138 \( \Omega \)

Capacitance:
- Unbalanced: 17.3 pF/ft [ 56.8 pF/m ]
- Balanced: 10.0 pF/ft [ 32.8 pF/m ]

Inductance:
- Unbalanced: 0.12 \( \mu \)H/ft [ 0.38 \( \mu \)H/m ]
- Balanced: 0.19 \( \mu \)H/ft [ 0.62 \( \mu \)H/m ]

Propagation Delay:
- Unbalanced: 1.42 ns/ft [ 4.66 ns/m ]
- Balanced: 1.38 ns/ft [ 4.53 ns/m ]

Velocity of Propagation: 72%  74%

Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between signal conductors within a pair.

Environmental

Temperature Rating: -40°C to +105°C

Flammability Rating: USA: UL Horizontal Canada: FT2

UL File No.: E42769, Style No: 20297
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3756 Series

<table>
<thead>
<tr>
<th>Number of Conductors</th>
<th>3M Part Number</th>
<th>Dimension A</th>
<th>Dimension B</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>3756/10</td>
<td>0.250 ± .006 [6.35]</td>
<td>0.225 ± .004 [5.72]</td>
</tr>
<tr>
<td>12</td>
<td>3756/12</td>
<td>0.300 ± .006 [7.62]</td>
<td>0.275 ± .004 [6.99]</td>
</tr>
<tr>
<td>14</td>
<td>3756/14</td>
<td>0.350 ± .006 [8.89]</td>
<td>0.325 ± .004 [8.26]</td>
</tr>
<tr>
<td>16</td>
<td>3756/16</td>
<td>0.400 ± .006 [10.16]</td>
<td>0.375 ± .004 [9.53]</td>
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<tr>
<td>20</td>
<td>3756/20</td>
<td>0.500 ± .006 [12.70]</td>
<td>0.475 ± .004 [12.07]</td>
</tr>
<tr>
<td>26</td>
<td>3756/26</td>
<td>0.650 ± .006 [16.51]</td>
<td>0.625 ± .004 [15.88]</td>
</tr>
<tr>
<td>30</td>
<td>3756/30</td>
<td>0.750 ± .009 [19.05]</td>
<td>0.725 ± .006 [18.42]</td>
</tr>
<tr>
<td>34</td>
<td>3756/34</td>
<td>0.850 ± .009 [21.59]</td>
<td>0.825 ± .006 [20.96]</td>
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<tr>
<td>36</td>
<td>3756/36</td>
<td>0.900 ± .009 [22.86]</td>
<td>0.875 ± .006 [22.23]</td>
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<tr>
<td>40</td>
<td>3756/40</td>
<td>1.000 ± .009 [25.40]</td>
<td>0.975 ± .006 [24.77]</td>
</tr>
<tr>
<td>50</td>
<td>3756/50</td>
<td>1.250 ± .009 [31.75]</td>
<td>1.225 ± .006 [31.12]</td>
</tr>
<tr>
<td>60</td>
<td>3756/60</td>
<td>1.500 ± .012 [38.10]</td>
<td>1.475 ± .009 [37.47]</td>
</tr>
<tr>
<td>68</td>
<td>3756/68</td>
<td>1.700 ± .012 [43.18]</td>
<td>1.675 ± .009 [42.55]</td>
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<tr>
<td>80</td>
<td>3756/80</td>
<td>2.000 ± .015 [50.80]</td>
<td>1.975 ± .011 [50.17]</td>
</tr>
<tr>
<td>100</td>
<td>3756/100</td>
<td>2.500 ± .015 [63.50]</td>
<td>2.475 ± .012 [62.87]</td>
</tr>
</tbody>
</table>

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

Ordering Information

3756/XX XX
Blank = Standard
C = Canadian Certified Version
Blank = Standard
SF = Splice Free

Number of Conductors
(See Table)

TS-0508-G
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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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