

3M™ Round Conductor Flat Cable

.050" 26 AWG Stranded, TPE

3770 Series



- 26 AWG wire on .050 inch centers permits mass termination to a broad line of IDC connectors
- TPE insulation provides excellent transmission properties at a low cost
- Zippable for branching or discrete terminations
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: March 15, 2010

TS-0342-E
Sheet 1 of 2

Physical

Insulation:

Material: Thermoplastic Elastomer (TPE)

Color: Gray

Marking:

Standard: None

Conductors: 26 AWG 7 × 34 [7 × 0.160] Tinned Stranded Copper

Electrical

Voltage Rating: USA: 300V EU: <50V

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

Characteristic Impedance: Unbalanced
104 Ω

Capacitance: 13.1 pF/ft (42.98 pF/m)

Inductance: 0.14 $\mu\text{H/ft}$ (0.46 $\mu\text{H/m}$)

Propagation Delay: 1.36 ns/ft (4.46 ns/m)

Velocity of Propagation: 75%

Note: Unbalanced is measured between ground-signal-ground conductors.

Environmental

Temperature Rating: -40°C to +105°C

Flammability Rating: USA: UL Horizontal

UL File No.: E42769, Style No: 20297

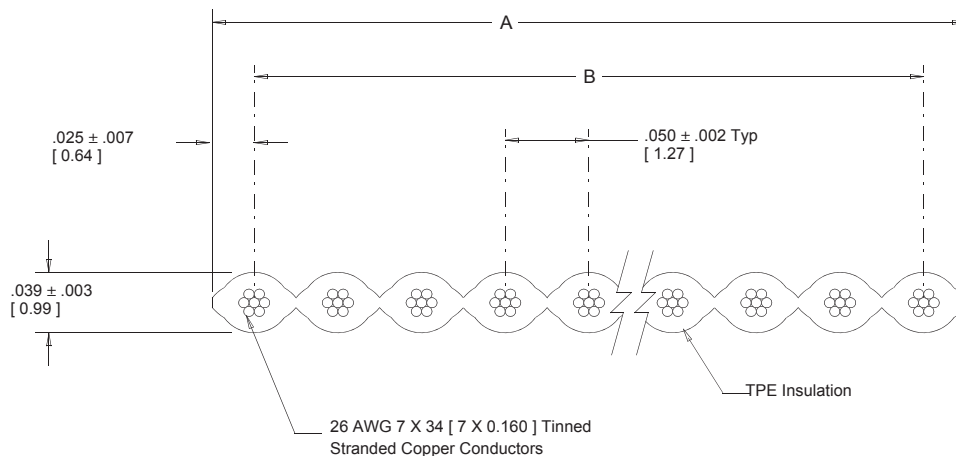
3M™ Round Conductor Flat Cable

.050" 26 AWG Stranded, TPE

3770 Series



Number of Conductors	3M Part Number	Dimension A	Dimension B
09	3770/09	0.450 ± .010 [11.43]	0.400 ± .007 [10.16]
10	3770/10	0.500 ± .010 [12.70]	0.450 ± .007 [11.43]
14	3770/14	0.700 ± .010 [17.78]	0.650 ± .007 [16.51]
15	3770/15	0.750 ± .010 [19.05]	0.700 ± .007 [17.78]
16	3770/16	0.800 ± .015 [20.32]	0.750 ± .011 [19.05]
20	3770/20	1.000 ± .015 [25.40]	0.950 ± .011 [24.13]
24	3770/24	1.200 ± .015 [30.48]	1.150 ± .011 [29.21]
25	3770/25	1.250 ± .015 [31.75]	1.200 ± .011 [30.48]
26	3770/26	1.300 ± .015 [33.02]	1.250 ± .011 [31.75]
30	3770/30	1.500 ± .020 [38.10]	1.450 ± .015 [36.83]
34	3770/34	1.700 ± .020 [43.18]	1.650 ± .015 [41.91]
36	3770/36	1.800 ± .020 [45.72]	1.750 ± .015 [44.45]
37	3770/37	1.850 ± .020 [46.99]	1.800 ± .015 [45.72]
40	3770/40	2.000 ± .020 [50.80]	1.950 ± .015 [49.53]
50	3770/50	2.500 ± .020 [63.50]	2.450 ± .015 [62.23]
60	3770/60	3.000 ± .020 [76.20]	2.950 ± .015 [74.93]
64	3770/64	3.200 ± .020 [81.28]	3.150 ± .015 [80.01]



Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.05	±.010

[] Dimensions for Reference Only

Note:

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

Ordering Information

3770/XX - XX

Number of Conductors
(See Table)

Blank = standard
SF = splice free

Note: Contact 3M for availability of additional conductor counts and/or custom roll lengths.

TS-0342-E
Sheet 2 of 2

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.3Mconnector.com

Please recycle. Printed in USA.
© 3M 2010. 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:](#)

[3770/24](#) [3770/09SF](#)