

# 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](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: March 15, 2010

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## Physical

### Insulation:

Material: Thermoplastic Elastomer (TPE)

Color: Gray

### Marking:

Standard: None

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

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## Electrical

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

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

**Characteristic Impedance:** Unbalanced  
104  $\Omega$

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

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

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

**Velocity of Propagation:** 75%

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

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## Environmental

**Temperature Rating:** -40°C to +105°C

**Flammability Rating:** USA: UL Horizontal

UL File No.: E42769, Style No: 20297

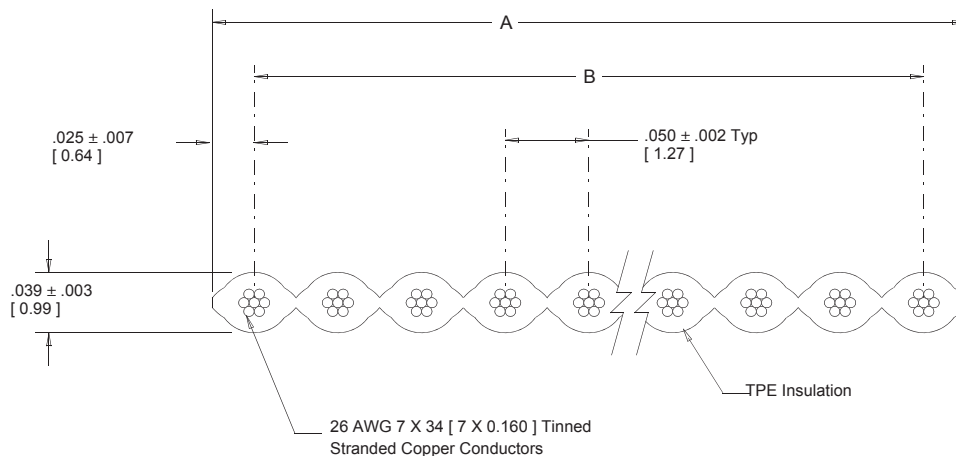
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| Number of Conductors | 3M Part Number | Dimension A            | Dimension B            |
|----------------------|----------------|------------------------|------------------------|
| 09                   | 3770/09        | 0.450 ± .010 [ 11.43 ] | 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.

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