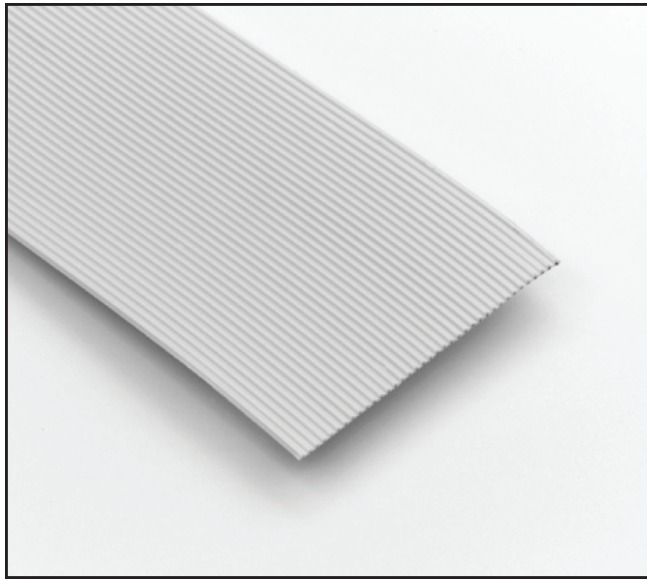


3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, Halogen-Free Insulation

2010 Series



- Advantage of this halogen free insulation are low smoke (BSS 7238) and low toxicity of combustion gases (NES 713) reducing the risk to firefighters and low corrosivity of combustion gases (pH approximately 6.0) reducing damage to nearby equipment
- 28 AWG stranded conductors on .050 inch pitch permits mass terminations to a broad line of IDC connectors
- Zippable for branching or discrete termination
- Please contact your 3M sales representative for variations not described in this specification
- See Regulatory Information Appendix (RIA) for chemical compliance information (RIA E1 & C1 apply)

Date Modified: September 9, 2010

TS-0722-C
Sheet 1 of 2

Physical

Insulation:

Material: Halogen-Free Polyolefin (PO)

Color: off-white

Marking:

Standard: None

Conductors: 28 AWG, 7 × 36 AWG [7 × Ø 0.127] 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	Balanced
107 Ω	176 Ω

Capacitance: 14.0 pF/ft [45.93 pF/m] 8.2 pF/ft [26.95 pF/m]

Inductance: 0.16 $\mu\text{H/ft}$ [0.53 $\mu\text{H/m}$] 0.26 $\mu\text{H/ft}$ [0.84 $\mu\text{H/m}$]

Propagation Delay: 1.50 ns/ft [4.92 ns/m] 1.45 ns/ft [4.76 ns/m]

Velocity of Propagation: 68% 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: UL: Horizontal IEC 332-1, -2, & -3

UL File No.: E42769, Style No: 20930

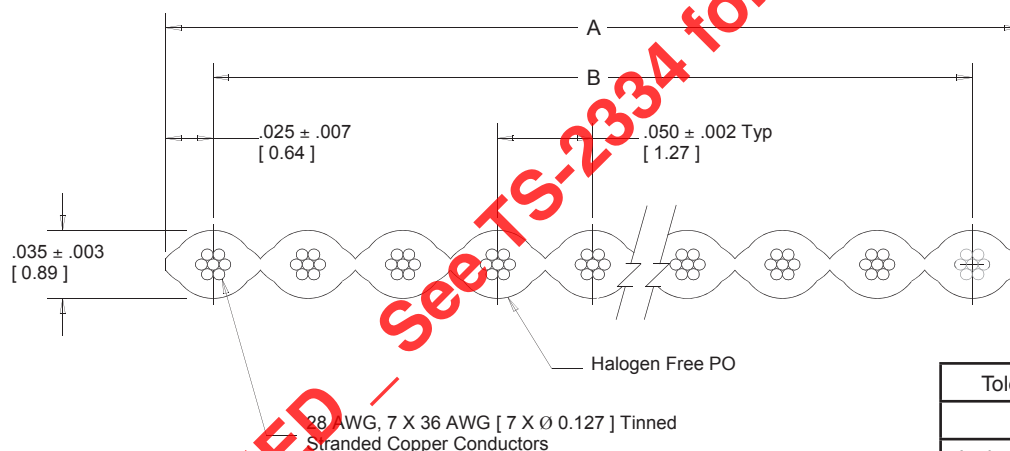
3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, Halogen-Free Insulation

2010 Series



Number of Conductors	3M Part Number	Dimension A	Dimension B
09	2010/09	.450 ± .010 [11.43]	.400 ± .007 [10.16]
10	2010/10	.500 ± .010 [12.70]	.450 ± .007 [11.43]
14	2010/14	.700 ± .010 [17.78]	.650 ± .007 [16.51]
15	2010/15	.750 ± .010 [19.05]	.700 ± .007 [17.78]
16	2010/16	.800 ± .015 [20.32]	.750 ± .011 [19.05]
18	2010/18	.900 ± .015 [22.88]	.850 ± .011 [21.59]
20	2010/20	1.000 ± .015 [25.40]	0.950 ± .011 [24.13]
24	2010/24	1.200 ± .015 [30.48]	1.150 ± .011 [29.21]
25	2010/25	1.250 ± .015 [31.75]	1.200 ± .011 [30.48]
26	2010/26	1.300 ± .015 [33.02]	1.250 ± .011 [31.75]
30	2010/30	1.500 ± .020 [38.10]	1.450 ± .015 [36.83]
34	2010/34	1.700 ± .020 [43.18]	1.650 ± .015 [41.91]
36	2010/36	1.800 ± .020 [45.72]	1.750 ± .015 [44.45]
37	2010/37	1.850 ± .020 [46.99]	1.800 ± .015 [45.72]
40	2010/40	2.000 ± .020 [50.80]	1.950 ± .015 [49.53]
50	2010/50	2.500 ± .020 [63.50]	2.450 ± .015 [62.23]
60	2010/60	3.000 ± .020 [76.20]	2.950 ± .015 [74.93]
64	2010/64	3.200 ± .020 [81.28]	3.150 ± .015 [80.01]



Note:

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

Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.01	±.005

[] Dimensions for Reference Only

Ordering Information

2010/XX XX

Number of Conductors
(See Table)

Blank = Standard
SF = Splice Free

Note:

Available in standard 100 ft and 300 ft rolls, please specify when ordering. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

TS-0722-C
Sheet 2 of 2



Interconnect Solutions

<http://www.3M.com/interconnects/>

3M is a trademark of 3M Company.
For technical, sales or ordering information call

800-225-5373

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.