



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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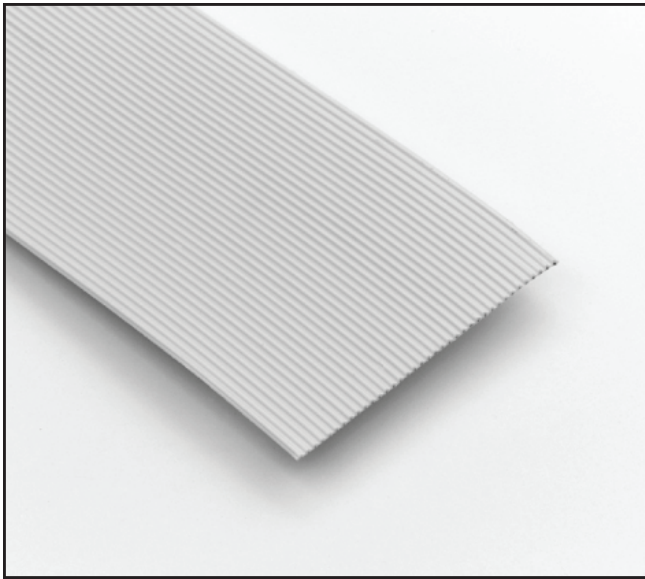
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



3M™ Round Conductor Flat Cable

.025" 30 AWG Solid, Halogen-Free Insulation

2049 Series



- Advantages of this halogen free insulation are low smoke (BSS 7238) and low toxicity of combustion gases (NES 713) reducing risk to firefighters and low corrosivity of combustion gases (pH≈6.0) reducing damage to nearby equipment.
- 30 AWG solid conductors on .025 inch pitch permits higher signal density and mass-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: May 5, 2009

TS-0886-D
Sheet 1 of 2

Physical

Insulation:

Material: Halogen-Free Polyolefin (PO) Appendix C1 & E1 apply.

Color: Off-White

Marking:

Standard: None

Conductors: 30 AWG [Ø 0.025] Tinned Solid Copper

Electrical

Voltage Rating: USA: 20V EU: <50V

Insulation Resistance: (Primary Cable) > 1 × 10¹⁰ Ω/10 ft. [3 m]

| | Unbalanced | Balanced |
|----------------------------------|-------------------|-----------------|
| Characteristic Impedance: | 83 Ω | 137 Ω |

| | | |
|---------------------|--------------------------|--------------------------|
| Capacitance: | 19.0 pF/ft [62.3 pF/m] | 11.1 pF/ft [36.4 pF/m] |
|---------------------|--------------------------|--------------------------|

| | | |
|--------------------|--------------------------|--------------------------|
| Inductance: | 0.13 μH/ft [0.43 μH/m] | 0.21 μ"/ft [0.66 μ"/m] |
|--------------------|--------------------------|--------------------------|

| | | |
|---------------------------|--------------------------|--------------------------|
| Propagation Delay: | 1.58 ns/ft [5.18 ns/m] | 1.52 ns/ft [4.99 ns/m] |
|---------------------------|--------------------------|--------------------------|

| | | |
|---------------------------------|-----|-----|
| Velocity of Propagation: | 64% | 67% |
|---------------------------------|-----|-----|

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

Environmental

Temperature Rating: -20°C to +105°C

Flammability Rating: USA: UL: Horizontal

UL File No.: E42769, Style No: 20930

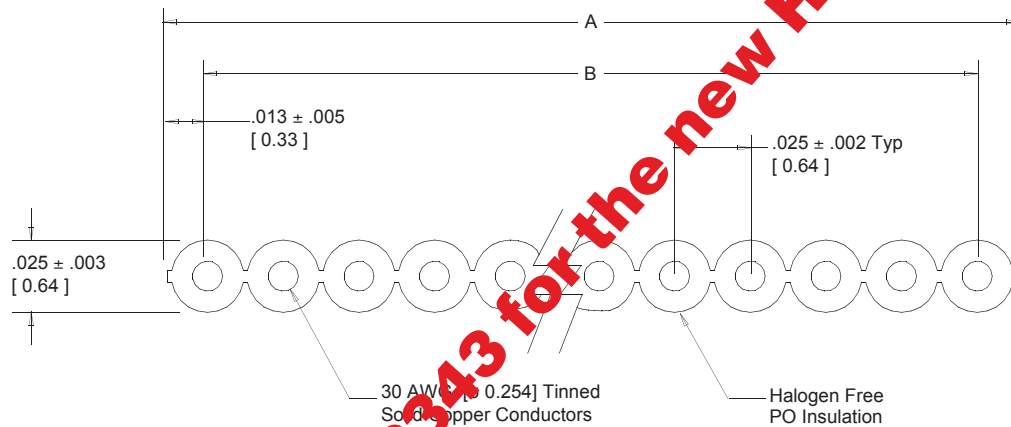
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| Number of Conductors | 3M Part Number | Dimension A | Dimension B |
|----------------------|----------------|------------------------|------------------------|
| 20 | 2049/20 | 0.500 ± .006 [12.70] | 0.475 ± .004 [12.07] |
| 26 | 2049/26 | 0.650 ± .006 [16.51] | 0.625 ± .004 [15.88] |
| 34 | 2049/34 | 0.850 ± .009 [21.59] | 0.825 ± .006 [20.96] |
| 36 | 2049/36 | 0.900 ± .009 [22.86] | 0.875 ± .006 [22.23] |
| 40 | 2049/40 | 1.000 ± .009 [25.40] | 0.975 ± .006 [24.77] |
| 50 | 2049/50 | 1.250 ± .009 [31.75] | 1.225 ± .006 [31.12] |
| 60 | 2049/60 | 1.500 ± .012 [38.10] | 1.475 ± .009 [37.47] |
| 68 | 2049/68 | 1.700 ± .012 [43.18] | 1.675 ± .009 [42.55] |
| 80 | 2049/80 | 2.000 ± .015 [50.80] | 1.975 ± .011 [50.17] |
| 100 | 2049/100 | 2.500 ± .015 [63.50] | 2.475 ± .012 [62.87] |



| Inch [mm] | | | |
|------------------------|-----|------|-------|
| Tolerance Unless Noted | | | |
| | .0 | .00 | .000 |
| Inch | ±.1 | ±.01 | ±.005 |

Note:

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

[] Dimensions for Reference Only

Ordering Information

2049/XX XX

Number of Conductors
(See Table)

Blank = Standard
SF = Splice Free

Note:

- Available in standard lengths of 30 m and 100 m per roll, please specify when ordering.

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