

3M™ Round Conductor Flat Cable

.025" 30 AWG Solid, TPE

3749 Series



- Close spacing permits higher signal density
- TPE insulation provides excellent transmission properties
- 30 AWG solid conductors on .025 inch spacing allows for mass termination
- Zippable for branching or discrete termination
- Meets SCSI-3 Fast-20 characteristic impedance requirements
- 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

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Physical

Insulation:

Material: Thermoplastic Elastomer (TPE)

Color: Gray

Marking:

Standard: None

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

Conductors: 30 AWG [Ø 0.254] Tinned Solid Copper

Electrical

Voltage Rating: USA: 150V Canada: 150V

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

Unbalanced

Characteristic Impedance: 90 Ω

Capacitance: 16.5 pF/ft [54.1 pF/m]

Inductance: 0.13 $\mu\text{H}/\text{ft}$ [0.43 $\mu\text{H}/\text{m}$]

Propagation Delay: 1.48 ns/ft [4.86 ns/m]

Velocity of Propagation: 69%

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

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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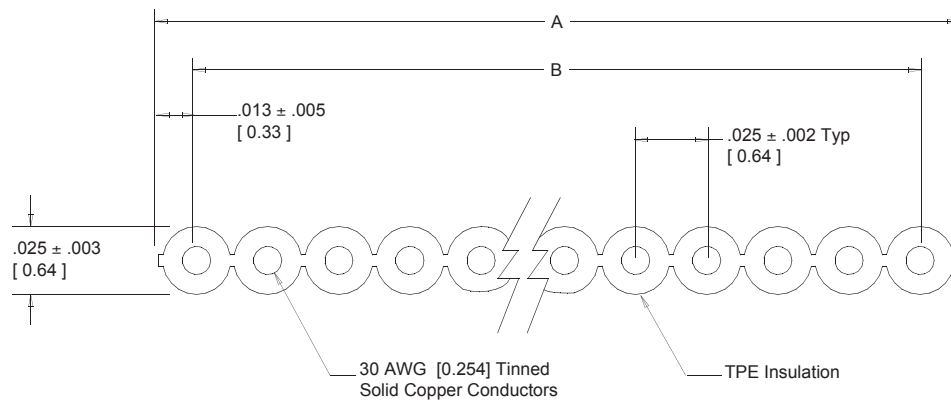
3749 Series



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

[] Dimensions for Reference Only

| Number of Conductors | 3M Part Number | Dimension A | Dimension B |
|----------------------|----------------|------------------------|------------------------|
| 10 | 3749/10 | 0.250 +/- .006 [6.35] | 0.225 +/- .004 [5.72] |
| 16 | 3749/16 | 0.400 +/- .006 [10.16] | 0.375 +/- .004 [9.53] |
| 20 | 3749/20 | 0.500 ± .006 [12.70] | 0.475 ± .004 [12.07] |
| 24 | 3749/24 | 0.600 +/- .006 [15.24] | 0.575 +/- .004 [14.61] |
| 26 | 3749/26 | 0.650 ± .006 [16.51] | 0.625 ± .004 [15.88] |
| 30 | 3749/30 | 0.750 +/- .009 [19.05] | 0.725 +/- .006 [18.42] |
| 34 | 3749/34 | 0.850 ± .009 [21.59] | 0.825 ± .006 [20.96] |
| 36 | 3749/36 | 0.900 ± .009 [22.86] | 0.875 ± .006 [22.23] |
| 40 | 3749/40 | 1.000 ± .009 [25.40] | 0.975 ± .006 [24.77] |
| 50 | 3749/50 | 1.250 ± .009 [31.75] | 1.225 ± .006 [31.12] |
| 60 | 3749/60 | 1.500 ± .012 [38.10] | 1.475 ± .009 [37.47] |
| 68 | 3749/68 | 1.700 ± .012 [43.18] | 1.675 ± .009 [42.55] |
| 80 | 3749/80 | 2.000 ± .015 [50.80] | 1.975 ± .011 [50.17] |
| 100 | 3749/100 | 2.500 ± .015 [63.50] | 2.475 ± .012 [62.87] |



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

Ordering Information

3749 / XX XX

Number of Conductors
(See Table)

Blank = Standard
SF = Splice Free

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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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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