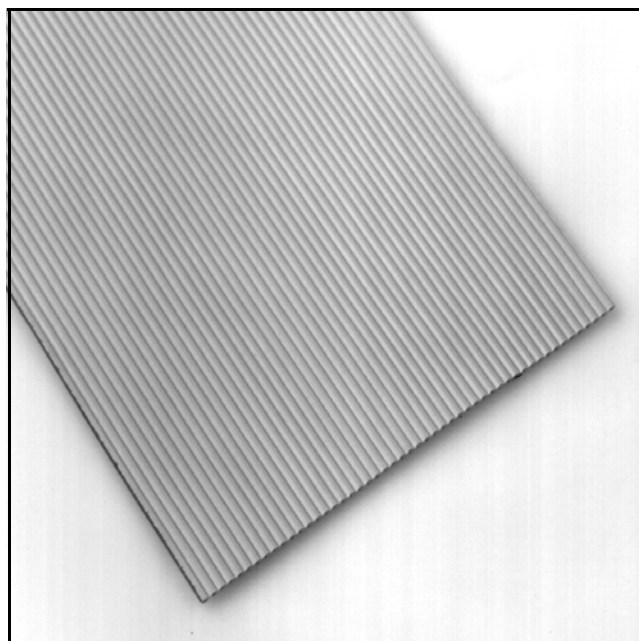


3M™ Round Conductor Flat Cable

.033" 30 AWG Stranded, PVC

3849 Series



- 30 AWG stranded wire on .0333 inch centers permits termination to all three rows in DIN connectors.
- Stranded wire provides flexibility and extended product life.
- Zippable for branching or discrete termination
- RoHS* compliant

Date Modified: November 14, 2006

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Sheet 1 of 2

Physical

Insulation

Material: Polyvinyl Chloride (PVC)

Color: Gray

Marking:

Standard: None

CSA Option:  AWM 2651 105C 300V VW1 3M NU  AWM IA 105C 300V FT1 EU <50V

Conductors: 30 AWG, 7 x 38 AWG [7 x ϕ 0.102] Tinned Stranded Copper

Electrical

Voltage Rating:	USA: 300V	Canada: 300V	EU: <50V
Insulation Resistance:	(Primary Cable) $> 1 \times 10^{10} \Omega/10 \text{ ft. [3m]}$		
	Unbalanced	Balanced	
Characteristic Impedance:	89 Ω	144 Ω	
Capacitance:	17.5 pF/ft. [57.4 pF/m]	10.5 pF/ft [34.5 pF/m]	
Inductance:	0.14 $\mu\text{H/ft. [0.46 } \mu\text{H/m]}$	0.22 $\mu\text{H/ft [0.72 } \mu\text{H/m]}$	
Propagation Delay:	1.56 ns/ft [5.12 ns/m]	1.51 ns/ft [4.95 ns/m]	
Velocity of Propagation:	65%	67%	

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: USA: VW-1 Canada: FT1

"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M. Contain decaBDE. Compliant per EU Commission Decision 2005/17/EC, Annex Item 9a - Exemption for decaBDE in Polymeric Applications.

UL File No.: E42769, Style No.: 2651



Interconnect Solutions

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

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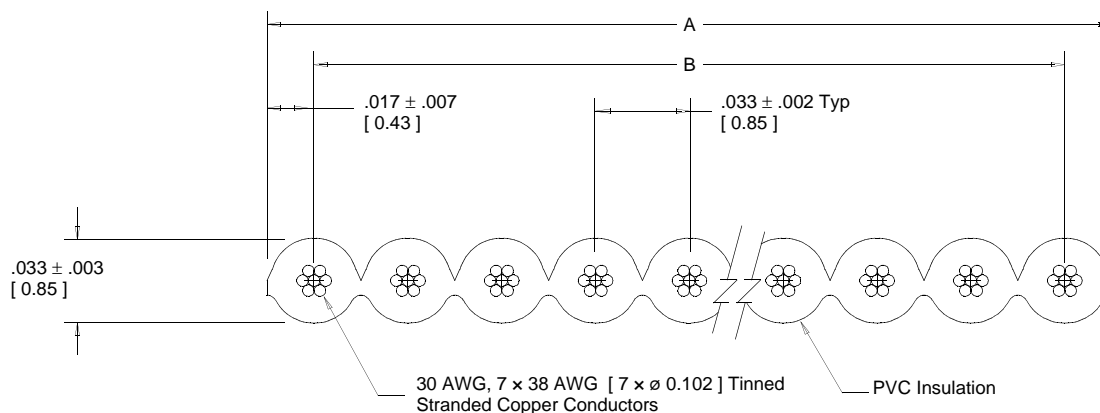
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Number of Conductors	3M Part Number	Dimension A	Dimension B
96	3849/96	3.197 ± .020 [81.20]	3.164 ± .015 [80.37]



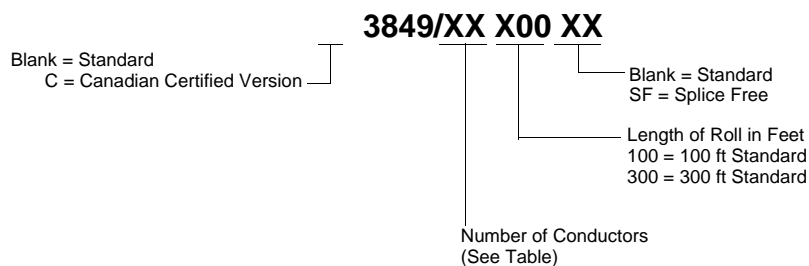
Inch
[mm]

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

[] Dimensions for
Reference only

Note: Red marking on edge of primary cable designates wire #1.

Ordering Information



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

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Sheet 2 of 2

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Minimum 10%
Post-Consumer Fiber

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