

3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, PVC

3667 Series



- Combines the routing ease of discrete wire round cable with the mass termination capabilities of a ribbon cable
- Split conductor sections allow for easy routing
- One inch bonded cable sections of 28 AWG wire on .050 inch centers permit termination to our broad line of IDC connectors
- Zippable for branching or discrete termination
- Split-bond lengths can be varied, see Note 2 in Ordering Information
- *RoHS compliant

Date Modified: May 24, 2004

TS-0247-13
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Physical


Insulation

Material: Polyvinyl Chloride (PVC)

Color: Gray

Marking

Standard: None

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

Conductors: 28 AWG 7 × 36 [7 × 0.127] Tinned Stranded Copper

Electrical

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

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

Characteristic Impedance: Unbalanced: 112 Ω

Capacitance: Unbalanced: 12.7 pF/ft. [41.5 pF/m]

Inductance: Unbalanced: .16 $\mu\text{H/ft. [0.52 } \mu\text{H/m]}$

Propagation Delay: Unbalanced: 1.42 ns/ft. [4.66 ns/m]

Velocity of Propagation: Unbalanced: 72%

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

Environmental

Temperature Rating: -20°C to +105°C

Flammability Rating: USA: VW-1 Canada: FT1

*RoHS = Directive 2002/95/EC,
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

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

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

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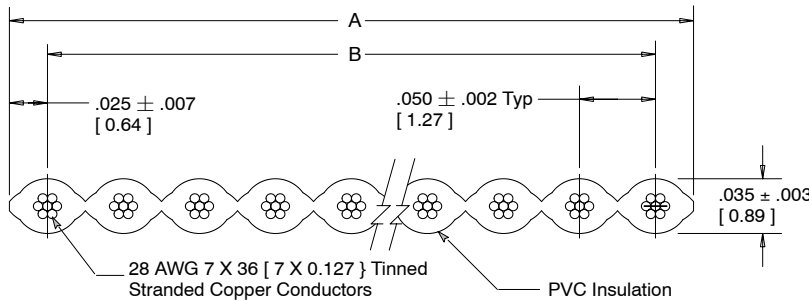
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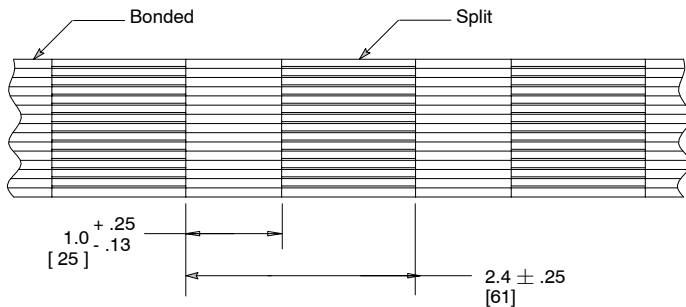
3667 Series



Number of Conductors	3M Part Number	Dimension A (See Note 2)	Dimension B (See Note 2)
10	3667/10	.500 ± .010 [12.70]	.450 ± .007 [11.43]
14	3667/14	.700 ± .010 [17.78]	.650 ± .007 [16.51]
16	3667/16	.800 ± .015 [20.32]	.750 ± .011 [19.05]
20	3667/20	1.000 ± .015 [25.40]	0.950 ± .011 [24.13]
24	3667/24	1.200 ± .015 [30.48]	1.150 ± .011 [29.21]
25	3667/25	1.250 ± .015 [31.75]	1.200 ± .011 [30.48]
26	3667/26	1.300 ± .015 [33.02]	1.250 ± .011 [31.75]
30	3667/30	1.500 ± .020 [38.10]	1.450 ± .015 [36.83]
34	3667/34	1.700 ± .020 [43.18]	1.650 ± .015 [41.91]
36	3667/36	1.800 ± .020 [45.72]	1.750 ± .015 [44.45]
37	3667/37	1.850 ± .020 [46.99]	1.800 ± .015 [45.72]
40	3667/40	2.000 ± .020 [50.80]	1.950 ± .015 [49.53]
44	3667/44	2.200 ± .020 [55.88]	2.150 ± .015 [54.61]
50	3667/50	2.500 ± .020 [63.50]	2.450 ± .015 [62.23]
60	3667/60	3.000 ± .020 [76.20]	2.950 ± .015 [74.93]
64	3667/64	3.200 ± .020 [81.28]	3.150 ± .015 [80.01]



Variable Length Suffix Table		
Example of variable bond and flat repeats		
Suffix	Repeat	Bond
MO	6.50	1.50
SV	9.50	1.00
BU	13.00	1.00



Split-bond lengths can be varied, see Note 2 in Ordering Information below.

Inch
[mm]

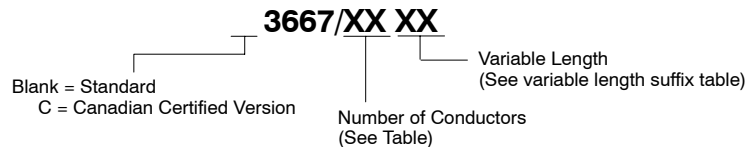
Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.01	±.005

[] Dimensions for Reference only

Note:

1. Red marking on one edge of cable designates wire #1.
2. A & B dimensions pertain to bonded areas only.

Ordering Information



Notes:

1. Available in standard lengths of 100 feet or 300 feet per roll, please specify when ordering.
2. Standard product has a split-bond repeat length of 2.4 inches (6.1 cm) with a 1.0 inch (2.5 cm) bonded section. The split-bond repeat length can be specified up to 24 inches (61.0 cm). The minimum split or bonded length is 1/2 inch (1.3 cm).
3. For special requirements, contact your 3M sales representative.

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