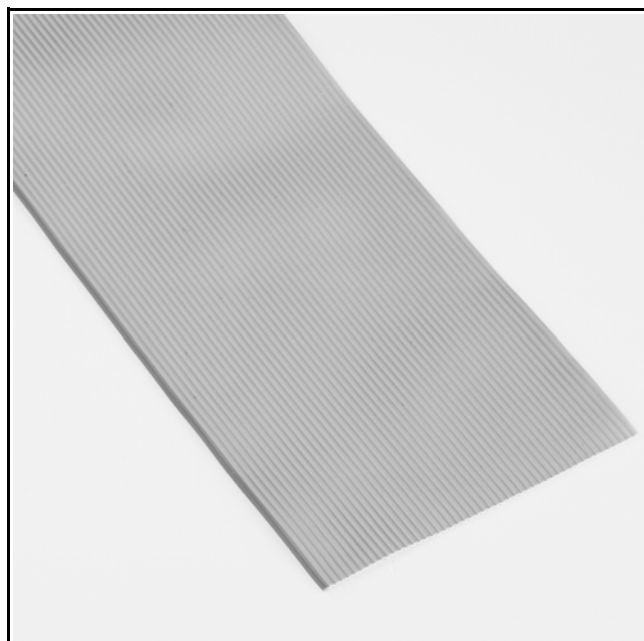


3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, PVC

R9965 Series



- 28 AWG wire on .050" centers permits mass termination to a broad line of IDC connectors
- Stranded wire provides flexibility and extended product life
- Zippable for branching or discrete termination
- Compatible with most .100" IDC connectors
- Large, splice free, 300 ft rolls support volume usage
- UL/CUL Standard Marking
- RoHS* compliant

Date Modified: January 30, 2012

TS-2101-06
Sheet 1 of 2

Physical

Insulation

Material: Polyvinyl Chloride (PVC)

Flammability: UL 94V-0

Color: Gray

Marking:

Marking: AWM 2651 105C 300V VW1 3M LH AWM 1A 105C 300V FT1 EU<50V

Conductors: 28 AWG (7 × 30) [7 × .127] Tinned Stranded Copper

Electrical

Voltage Rating: CSA: 300 V EU: <50 V

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

Withstanding Voltage: 1000 VAC for 1 minute

	Unbalanced	Balanced
Characteristic Impedance:	100 Ω	168 Ω
Capacitance:	14.98 pF/ft	8.46 pF/ft
Inductance:	0.15 $\mu\text{H}/\text{ft}$	0.24 $\mu\text{H}/\text{ft}$
Propagation Delay:	1.50 ns/ft	1.42 ns/ft
Velocity of Propagation:	67.6%	71.6%

Environmental

Temperature Rating: -20°C to +105°C

Flammability Rating: VW-1

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

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



Interconnect Solutions

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

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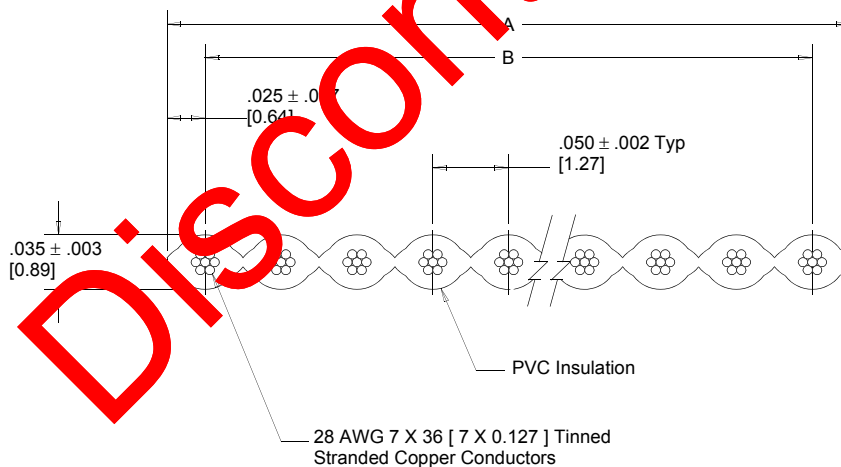
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.050" 28 AWG Stranded, PVC

R9965 Series

No. of Conductors	Dim A	Dim B	Tolerance ±
6	0.300	0.250	0.005
	[7.62]	[6.35]	[0.13]
8	0.400	0.350	0.005
	[10.16]	[8.89]	[0.13]
9	0.450	0.400	0.005
	[11.43]	[10.16]	[0.13]
10	0.500	0.450	0.005
	[12.70]	[11.43]	[0.13]
14	0.700	0.650	0.005
	[17.78]	[16.51]	[0.13]
15	0.750	0.700	0.005
	[19.05]	[17.78]	[0.13]
16	0.800	0.750	0.005
	[20.32]	[19.05]	[0.13]
20	1.000	0.950	0.010
	[25.40]	[24.13]	[0.25]
24	1.200	1.150	0.010
	[30.48]	[29.21]	[0.25]

No. of Conductors	Dim A	Dim B	Tolerance ±
25	1.250	1.200	0.010
	[31.75]	[30.48]	[0.25]
26	1.300	1.250	0.010
	[33.02]	[31.75]	[0.25]
30	1.500	1.450	0.010
	[38.10]	[36.83]	[0.25]
34	1.700	1.650	0.010
	[43.18]	[41.91]	[0.25]
40	2.000	1.950	0.015
	[50.80]	[49.53]	[0.38]
50	2.500	2.450	0.015
	[63.50]	[62.23]	[0.38]
60	3.000	2.950	0.015
	[76.20]	[74.93]	[0.38]
64	3.200	3.150	0.015
	[81.28]	[80.01]	[0.38]



Inch
[mm]

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

[] Dimensions for Reference Only

Note: Red marking on one edge of cable designates wire no. 1

Ordering Information

R9965/XX 300SF

Number of conductors
(See table)

Note: Available in 300 ft. splice free rolls only.

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Sheet 2 of 2

Discontinued

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6801 River Place Blvd.
Austin, TX 78726-9000
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www.3M.com/electronics

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Minimum 10%
Post-Consumer Fiber

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