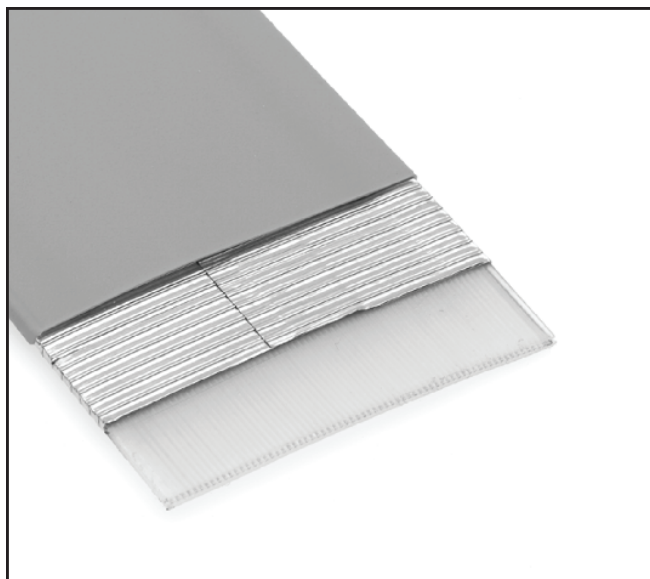


3M™ Pleated Foil Shielded Cable

.025" 30 AWG Solid, TPE Primary, Thin TPE Cover

90211 Series



- Can be used with IDC mass termination connectors
- Can be used in applications requiring standard impedance of 75 ohms single ended
- Perfect for board-to-board applications within electronic equipment, TPE cover prevents pleated copper foil from accidental shorting
- Solid pleated copper foil provides flexibility and 35 db average shielding effectiveness
- See Regulatory Information Appendix (RIA) for chemical compliance information (RIA E1 & C1 apply)

Date Modified: September 3, 2013

TS-0598-C
Sheet 1 of 2

Physical

Cover Material: Thermoplastic Elastomer (TPE)

Cover Color: Gray

Primary Material: Thermoplastic Elastomer (TPE)

Marking Standard: None

Canadian Option:  AWM 20674 105C 150V VW1 3M NU
C  AWM IA 105C 150V FT1 EU <50V

Conductors: 30 AWG [0.254] Tinned Solid Copper

Shielding: Solid, Pleated, Copper Foil

Electrical

Voltage Rating: USA: 150V Canada: 150V EU: <50V

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

Characteristic Impedance:	Unbalanced	Balanced
	72 Ω	129 Ω

Capacitance:	21.0 pF/ft [68.9 pF/m]	11.6 pF/ft [38.1 pF/m]
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Inductance:	0.11 $\mu\text{H/ft}$ [0.26 $\mu\text{H/m}$]	0.19 $\mu\text{H/ft}$ [0.52 $\mu\text{H/m}$]
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Propagation Delay:	1.51 ns/ft [4.99 ns/m]	1.50 ns/ft [4.95 ns/m]
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Velocity of Propagation:	67%	68%
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Note: Unbalanced is measured between ground-signal-ground conductors with shield grounded. Balanced is measured between signal conductors within a pair with the shield floating.

Environmental

Temperature Rating: -20°C to +105°C

Flammability Rating: USA: VW-1 Canada: FT1

UL File No.: E42769, Style No.: 20674

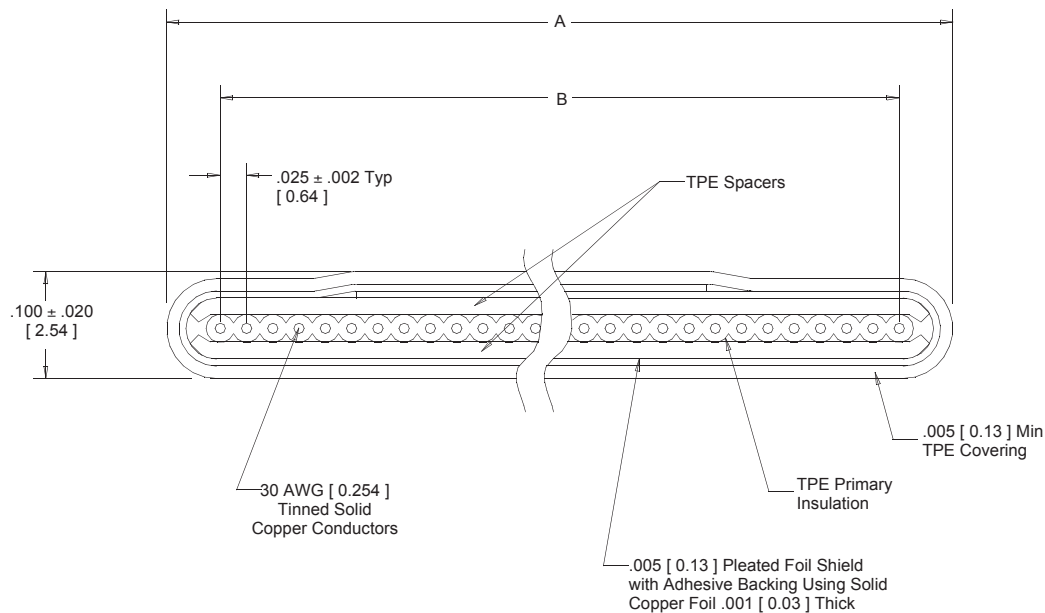
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90211 Series



Number of Conductors	3M Part Number	Dimension A	Dimension B
20	90211/20	.62 [15.8]	0.475 ± .004 [12.07]
26	90211/26	.77 [19.6]	0.625 ± .004 [15.88]
36	90211/36	1.02 [25.9]	0.875 ± .006 [22.23]
40	90211/40	1.12 [28.5]	0.975 ± .006 [24.77]
50	90211/50	1.37 [34.8]	1.225 ± .009 [31.12]
68	90211/68	1.82 [46.2]	1.675 ± .012 [42.55]
80	90211/80	2.12 [53.9]	1.975 ± .012 [50.17]
100	90211/100	2.62 [66.6]	2.475 ± .015 [62.87]



Inch
[mm]

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

[] Dimensions for Reference Only

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

Ordering Information

90211/XXX XX

Blank = Standard
C = Canadian Certified Version

Number of Conductors
(See Table)

Blank = Standard
SF = Splice Free

Note: Standard length is 100 ft/roll.

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Sheet 2 of 2

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