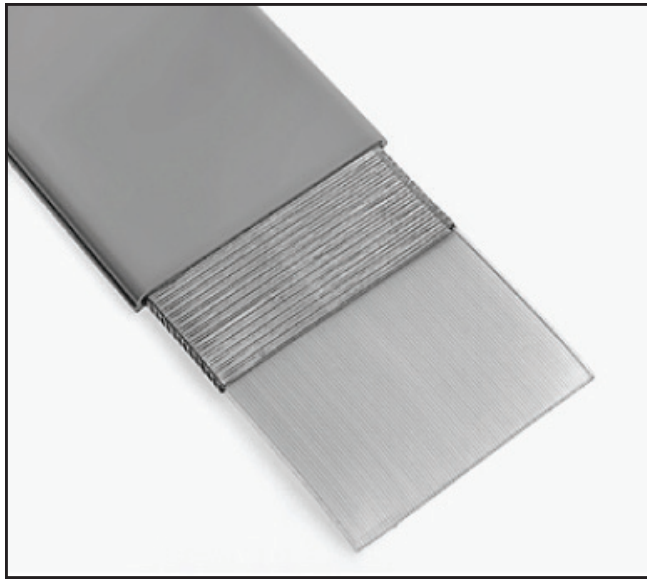


# 3M™ Pleated Foil Shielded Cable

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

90202 Series



- Can be used with IDC mass termination connectors
- Pleated copper foil provides flexibility and 35db average shielding effectiveness
- See Regulatory Information Appendix (RIA) for chemical compliance information (RIA E1 & C1 apply)

Date Modified: September 3, 2013

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## Physical

**Insulation Material:** Thermoplastic Elastomer (TPE)

Color: Gray

**Primary Material:** Thermoplastic Elastomer (TPE)

Color: Gray

**Marking Standard:** None

Canadian Option: **UL** AWM 20297 105C 150V VW1 3M NU C **UL** AWM IA 105C 150V FT1 EU <50V

**Conductors:** 30 AWG, 7 × 38 AWG [ 7 × Ø 0.102 ] Tinned Stranded Copper

Shielding: Solid, Pleated, Copper Foil

## Electrical

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

**Insulation Resistance:** (Primary) > 1 × 10<sup>10</sup> Ω/10 ft. [ 3 m ]

<b>Characteristic Impedance:</b>	<b>Unbalanced</b>	<b>Balanced</b>
	46.1 Ω	88.5 Ω

<b>Capacitance:</b>	35.3 pF/ft [ 116 pF/m ]	18.3 pF/ft [ 60 pF/m ]
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<b>Inductance:</b>	0.08 μH/ft [ 0.25 μH/m ]	0.14 μH/ft [ 0.47 μH/m ]
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<b>Propagation Delay:</b>	1.63 ns/ft [ 5.35 ns/m ]	1.62 ns/ft [ 5.31 ns/m ]
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<b>Velocity of Propagation:</b>	62%	62%
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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

**Regulatory Classification:** EU: Not compliant, see RIA note E4

CN: , see RIA note C1

Regulatory Information Appendix (RIA) attached

UL File No.: E118773, Power Limited Circuit Cable: CL2

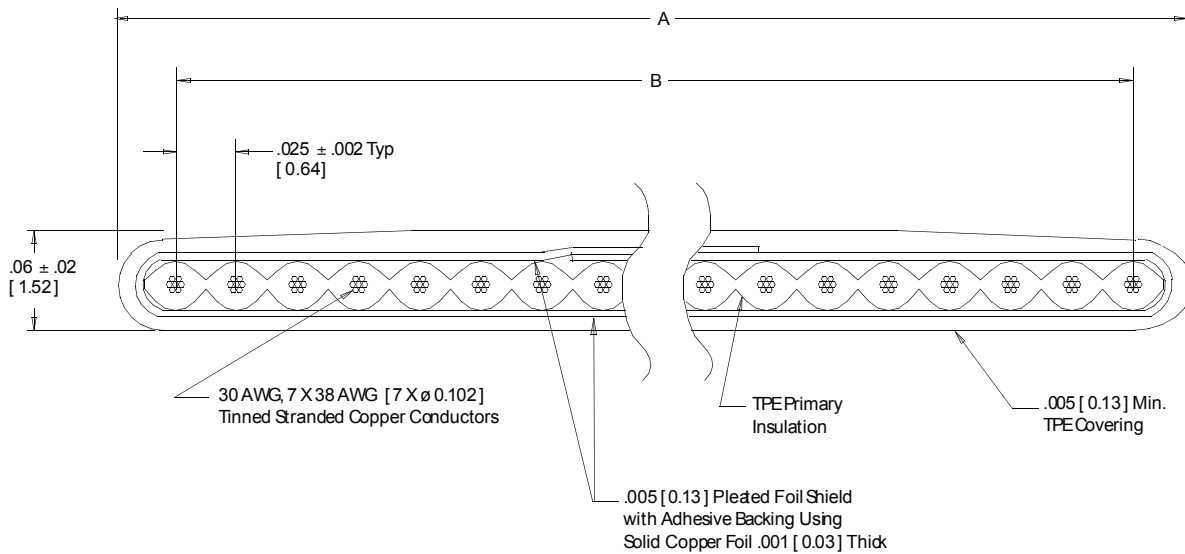
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.025" 30 AWG Stranded, TPE Primary, Thin TPE Cover

90202 Series



Number of Conductors	3M Part Number	Dimension A	Dimension B
20	90202/20	0.54 [ 13.7 ]	0.475 ± .006 [ 12.06 ]
26	90202/26	0.69 [ 17.5 ]	0.625 ± .006 [ 15.88 ]
36	90202/36	0.94 [ 23.9 ]	0.875 ± .009 [ 22.23 ]
40	90202/40	1.04 [ 26.4 ]	0.975 ± .009 [ 24.77 ]
50	90202/50	1.29 [ 32.8 ]	1.225 ± .009 [ 31.11 ]
60	90202/60	1.54 [ 39.1 ]	1.475 ± .012 [ 37.47 ]
68	90202/68	1.74 [ 44.2 ]	1.675 ± .012 [ 42.55 ]
80	90202/80	2.04 [ 51.8 ]	1.975 ± .015 [ 50.17 ]
100	90202/100	2.54 [ 64.5 ]	2.475 ± .017 [ 62.87 ]

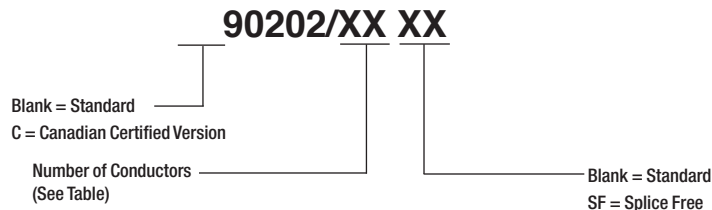


Tolerance Unless Noted			
	Inch [mm]		
	.0	.00	.000
Inch	±.1	±.05	±.010

[ ] Dimensions for Reference Only

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

## Ordering Information



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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