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

Physical

Insulation Material: Thermoplastic Elastomer (TPE)

Color: Gray

Primary Material: Thermoplastic Elastomer (TPE)

Color: Gray

Marking Standard: None

Canadian Option: AWM 20297 105C 150V VW1 3M NU C 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^{10} Ω/10 ft. [3 m]

	Unbalanced	Balanced
Characteristic Impedance:	46.1 Ω	88.5 Ω
Capacitance:	35.3 pF/ft [116 pF/m]	18.3 pF/ft [60 pF/m]
Inductance:	0.08 µH/ft [0.25 µH/m]	0.14 µH/ft [0.47 µH/m]
Propagation Delay:	1.63 ns/ft [5.35 ns/m]	1.62 ns/ft [5.31 ns/m]
Velocity of Propagation:	62%	62%

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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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]

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

90202/XX XX

- Blank = Standard
- C = Canadian Certified Version

- Number of Conductors (See Table)

- Blank = Standard
- SF = Splice Free

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.

TS-0730-E
Sheet 2 of 2

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ООО «ЛайфЭлектроникс» “LifeElectronics” LLC

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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