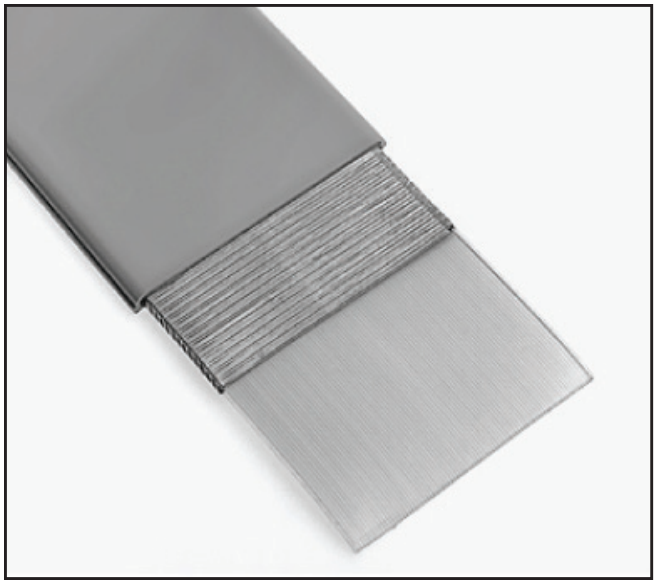
3M™ Pleated Foil Shielded Cable

.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: e, see RIA note C1
Regulatory Information Appendix (RIA) attached

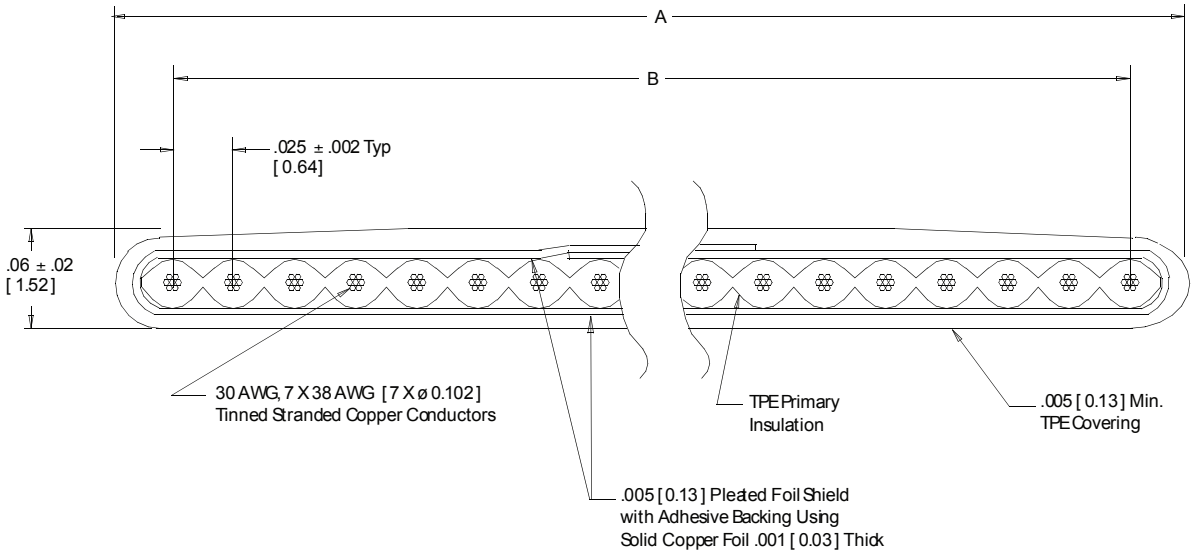
UL File No.: E118773, Power Limited Circuit Cable: CL2

3M is a trademark of 3M Company.

3M™ Pleated Foil Shielded Cable

.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]



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.

3M
Interconnect Solutions
http://www.3Mconnectors.com

3M is a trademark of 3M Company.

For technical, sales or ordering information call
800-225-5373

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

3M Electronics Solutions Division
6801 River Place Blvd.
Austin, TX 78726-9000
U.S.A.
1-800-225-5373
www.3Mconnectors.com

Please recycle. Printed in USA.
© 3M 2012. All rights reserved.
RIA-2217B-F

3M is a trademark of 3M Company.