

3M™ Pleated Foil Shielded Cable

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

90201 Series



- Can be used with IDC mass termination connectors
- Can be used in applications requiring standard impedance of 100 Ω balanced (differential)
- Perfect for board-to-board applications within electronic equipment, TPE covering 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-0402-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
 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
	53 Ω	104 Ω

Capacitance:	28.4 pF/ft [93.2 pF/m]	14.5 pF/ft [47.6 pF/m]
---------------------	--------------------------	--------------------------

Inductance:	0.08 $\mu\text{H}/\text{ft}$ [0.26 $\mu\text{H}/\text{m}$]	0.16 $\mu\text{H}/\text{ft}$ [0.52 $\mu\text{H}/\text{m}$]
--------------------	--------------------------------------------------------------	--------------------------------------------------------------

Propagation Delay:	1.52 ns/ft [4.99 ns/m]	1.50 ns/ft [4.95 ns/m]
---------------------------	--------------------------	--------------------------

Velocity of Propagation:	67%	67%
---------------------------------	-----	-----

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

3M™ Pleated Foil Shielded Cable

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

90201 Series



Number of Conductors	3M Part Number	Dimension A	Dimension B
20	90201/20	0.54 [13.7]	0.475 ± .006 [12.06]
26	90201/26	0.69 [17.5]	0.625 ± .006 [15.88]
36	90201/36	0.94 [23.9]	0.875 ± .009 [22.23]
40	90201/40	1.04 [26.4]	0.975 ± .009 [24.77]
50	90201/50	1.29 [32.8]	1.225 ± .009 [31.11]
60	90201/60	1.54 [39.1]	1.475 ± .012 [37.47]
68	90201/68	1.74 [44.2]	1.675 ± .012 [42.55]
80	90201/80	2.04 [51.8]	1.975 ± .015 [50.17]
100	90201/100	2.54 [64.5]	2.475 ± .017 [62.87]



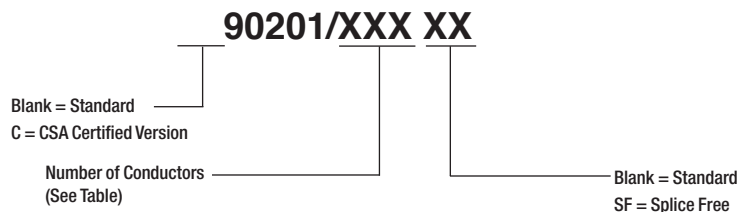
Inch
[mm]

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



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-0402-C
Sheet 2 of 2

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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Flat Cables](#) category:

Click to view products by [3M](#) manufacturer:

Other Similar products are found below :

[8132/08100](#) [FST-23A-15](#) [1301210030](#) [C336514-500](#) [902220736002000](#) [902220736006000](#) [28100-0614](#) [281000616](#) [281000625](#) [9L28014-008-H300](#) [28100-0571](#) [28100-0602](#) [281000624](#) [28100-0650](#) [28100-0664](#) [336512-300](#) [336518](#) [336537-CUT-LENGTH](#) [3447/10-100](#) [3625/08-30M](#) [362514100MSF](#) [40WDY00005](#) [5111993623](#) [336506-300](#) [336508-300](#) [C374910](#) [34WDY00006](#) [3749/10-100](#) [375630](#) [3-971111-6](#) [1-1437356-3](#) [57034-6](#) [812504](#) [8132/11100](#) [5-1437214-8](#) [1301210060](#) [1301210058](#) [1301190003](#) [1301210032](#) [5111196336](#) [607.5689.087](#) [607.5689.091](#) [3801/04](#) [1301210020](#) [3754/12](#) [902220736003000](#) [3625/22100MSF](#) [902220736005000](#) [902220736004000](#) [C3811/10-100](#)