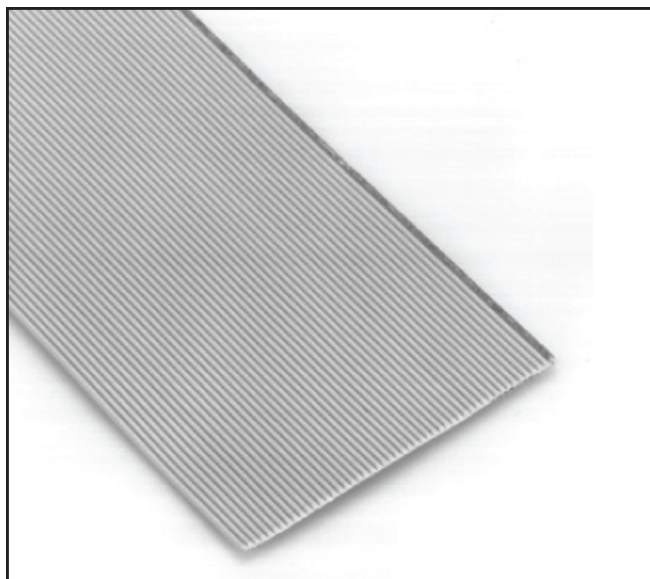


3M™ Round Conductor Flat Cable

.025" 30 AWG Solid, FEP

3604 Series



- FEP insulation is compatible with most insulation displacement connectors
- .025 inch pitch parallel conductors for mass termination
- Low dielectric constant
- Excellent abrasion and chemical resistance
- Excellent mechanical durability
- Nonflammable
- UL Recognized to 150°C
- See Regulatory Information Appendix (RIA) for chemical compliance information (RIA E1 & C1 apply)

Date Modified: November 1, 2013

TS-0653-D
Sheet 1 of 2

Physical

Insulation:

Material: Fluorinated Ethylene Propylene (FEP)

Color: Opaque White

Marking:

Standard: None

Conductors: 30 AWG, Solid [Ø 0.254] Silver Plated Copper

Electrical

Voltage Rating: USA: 150V

EU: <50V

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

Unbalanced:

Balanced:

Characteristic Impedance: 99 Ω

195 Ω

Capacitance: 13.8 pF/ft [45.3 pF/m]

8.2 pF/ft [26.9 pF/m]

Inductance: 0.14 $\mu\text{H/ft}$ [0.46 $\mu\text{H/m}$]

0.23 $\mu\text{H/ft}$ [0.75 $\mu\text{H/m}$]

Propagation Delay: 1.38 ns/ft [4.95 ns/m]

1.36 ns/ft [4.46 ns/m]

Velocity of Propagation: 74%

75%

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: -55°C to +150°C

Flammability Rating: USA: VW-1

UL File No.: E42769, Style No: 20726



Interconnect Solutions
<http://www.3Mconnectors.com>

3M is a trademark of 3M Company.
For technical, sales or ordering information call
800-225-5373

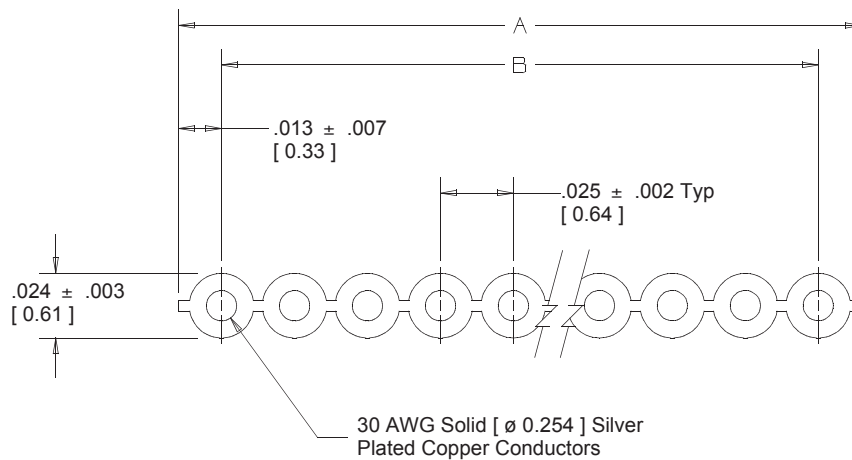
3M™ Round Conductor Flat Cable

.025" 30 AWG Solid, FEP

3604 Series



Number of Conductors	3M Part Number	Dimension A	Dimension B
04	3604/04	0.100 ± .005 [2.54]	0.075 ± .003 [1.91]
06	3604/06	0.150 ± .005 [3.81]	0.125 ± .003 [3.18]
08	3604/08	0.200 ± .005 [5.08]	0.175 ± .003 [4.45]
10	3604/10	0.250 ± .006 [6.35]	0.225 ± .004 [5.72]
12	3604/12	0.300 ± .006 [7.62]	0.275 ± .004 [6.99]
14	3604/14	0.350 ± .006 [8.89]	0.325 ± .004 [8.26]
16	3604/16	0.400 ± .006 [10.16]	0.375 ± .004 [9.53]
20	3604/20	0.500 ± .007 [12.70]	0.475 ± .005 [12.07]
26	3604/26	0.650 ± .007 [16.51]	0.625 ± .005 [15.88]
30	3604/30	0.750 ± .007 [19.05]	0.725 ± .005 [18.42]
34	3604/34	0.850 ± .007 [21.59]	0.825 ± .005 [20.96]
36	3604/36	0.900 ± .007 [22.86]	0.875 ± .005 [22.23]
40	3604/40	1.000 ± .010 [25.40]	0.975 ± .006 [24.77]
50	3604/50	1.250 ± .010 [31.75]	1.225 ± .006 [31.12]
60	3604/60	1.500 ± .010 [38.10]	1.475 ± .006 [37.47]
64	3604/64	1.600 ± .010 [40.64]	1.575 ± .006 [40.01]
68	3604/68	1.700 ± .010 [43.18]	1.675 ± .006 [42.55]
80	3604/80	2.000 ± .010 [50.80]	1.975 ± .006 [50.17]
100	3604/100	2.500 ± .010 [63.50]	2.475 ± .006 [62.87]



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

Inch
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	±.1	±.01	±.005

[] Dimensions for Reference Only

Ordering Information

3604/XX

Number of Conductors
(See Table)

Note: Available in standard 100 ft rolls. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

TS-0653-D
Sheet 2 of 2

3M is a trademark of 3M Company.

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 2013. All rights reserved.
RIA-2217B-E

3M is a trademark of 3M Company.