



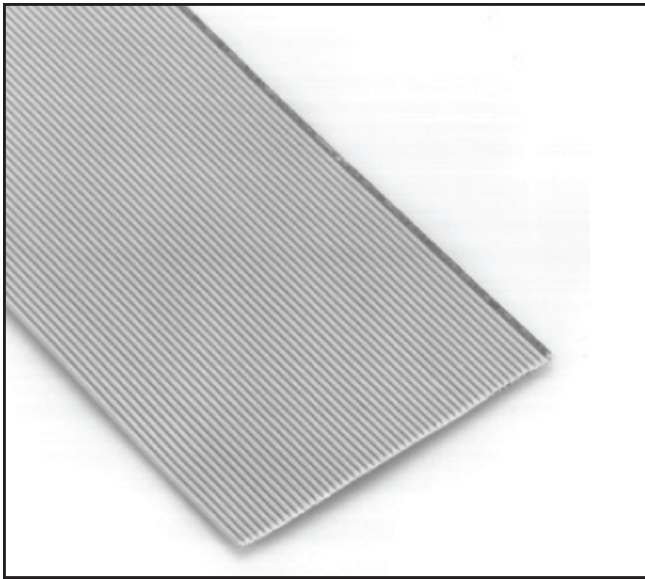
THE DATASHEET OF
3604/100 100



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

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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 $\mu\text{H}/\text{ft}$ [0.46 $\mu\text{H}/\text{m}$] 0.23 $\mu\text{H}/\text{ft}$ [0.75 $\mu\text{H}/\text{m}$]

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

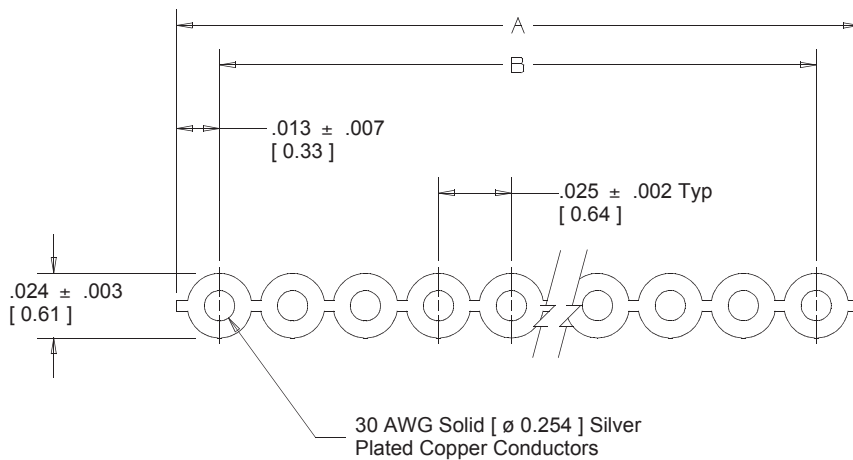
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Number of Conductors	3M Part Number	Dimension A	Dimension B
04	3604/04	0.100 ± .005 [2.54]	0.075 ± .003 [1.91]
06	3604/06	0.150 ± .005 [3.81]	0.125 ± .003 [3.18]
08	3604/08	0.200 ± .005 [5.08]	0.175 ± .003 [4.45]
10	3604/10	0.250 ± .006 [6.35]	0.225 ± .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]



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

[] Dimensions for Reference Only

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

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.

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