

3M™ Round Conductor Flat Cable

.025" 30 AWG Solid, PVC

3447 Series



- .025 inch wire spacing increases signal density
- PVC insulation provides excellent flexibility
- 30 AWG solid conductors on .025 inch wire spacing is designed for mass termination
- Zippable for branching or discrete termination
- Designed for use with Ultra-ATA cable assemblies
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the “RoHS Compliance” section of www.3Mconnectors.com for compliance information (RIA E1 and C1 apply).

Date Modified: November 1, 2013

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Physical

Insulation Material: Polyvinyl Chloride (PVC)

Color: Gray

Marking: None

Conductors: 30 AWG [Ø 0.254] Tinned Solid Copper

Electrical

Voltage Rating: USA: 30V EU: <50V

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

	Unbalanced	Balanced
Characteristic Impedance:	81 Ω	136 Ω
Capacitance:	19.1 pF/ft [62.7 pF/m]	11.0 pF/ft [36.1 pF/m]
Inductance:	0.13 $\mu\text{H}/\text{ft}$ [0.43 $\mu\text{H}/\text{m}$]	0.20 $\mu\text{H}/\text{ft}$ [0.66 $\mu\text{H}/\text{m}$]
Propagation Delay:	1.55 ns/ft [5.09 ns/m]	1.49 ns/ft [4.89 ns/m]
Velocity of Propagation:	66%	68%

Note: Unbalanced is measured between ground-signal-ground conductors. Balanced is measured between conductors within a pair.

Environmental

Temperature Rating: -20C to +105C

Flammability Rating: USA: VW-1

UL File No.: E42769, Style No.: 20596

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Number of Conductors	3M Part Number	Dimension A	Dimension B
10	3447/10	0.250 ± .006 [6.35]	0.225 ± .004 [5.72]
12	3447/12	0.300 ± .006 [7.62]	0.275 ± .004 [6.99]
14	3447/14	0.350 ± .006 [8.89]	0.325 ± .004 [8.26]
16	3447/16	0.400 ± .006 [10.16]	0.375 ± .004 [9.53]
20	3447/20	.500 ± .006 [12.70]	.475 ± .004 [12.07]
26	3447/26	.650 ± .006 [16.51]	.625 ± .004 [15.88]
30	3447/30	0.750 ± .009 [19.05]	0.725 ± .006 [18.42]
34	3447/34	.850 ± .009 [21.59]	.825 ± .006 [20.96]
36	3447/36	.900 ± .009 [22.86]	.875 ± .006 [22.23]
40	3447/40	1.000 ± .009 [24.40]	.975 ± .006 [24.77]
50	3447/50	1.250 ± .009 [31.75]	1.225 ± .006 [31.12]
60	3447/60	1.500 ± .012 [38.10]	1.475 ± .009 [37.47]
68	3447/68	1.700 ± .012 [43.18]	1.675 ± .009 [42.55]
80	3447/80	2.000 ± .015 [50.80]	1.975 ± .011 [50.17]
100	3447/100	2.500 ± .015 [63.50]	2.475 ± .012 [62.87]



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

[] Dimensions for Reference Only

Note:

1. Red marking on one edge of cable designates wire #1.

Ordering Information

3447/XX XX

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.

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