

# 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](http://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) >  $1 \times 10^{10} \Omega/10 \text{ ft. [ 3 m ]}$

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