

# 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

TS-0830-D  
Sheet 1 of 2

## 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 $\mu\text{H}/\text{ft}$ [ 0.43 $\mu\text{H}/\text{m}$ ] | 0.20 $\mu\text{H}/\text{ft}$ [ 0.66 $\mu\text{H}/\text{m}$ ] |
| <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.

TS-0830-D  
Sheet 2 of 2

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