

[Product Catalog for Electronic Specialty Markets](#) > [3M™ Cable & Assemblies](#) > [Internal Wiring](#) > [Round Conductor Flat Cable, .050 in Pitch, 3365 Series](#) >

## 3M™ Round Conductor Flat Cable .050", 3365/40 (100`NS)

40 Conductor, 28 AWG, Stranded, .050" Pitch, Gray Color, Round Conductor Flat Cable, PVC Insulation, 100 Ft.Splice-free Roll.

GTIN(UPC/EAN) : 0 00 54007 61154 7

3M Id : 80-6102-0206-3

### Additional Information

The .050" Round Conductor Flat Cable is zippable for branching or discrete termination. Stranded wire provides flexibility and extended product life. The 28 AWG wire on .050 inch centers permits mass termination to a broad line of IDC connectors.

### Characteristics

<b>Cable Style</b>	Flat
<b>Capacitance -- Balanced</b>	0 Picofarad
<b>Capacitance -- Unbalanced</b>	12.8 Picofarad
<b>Conductor Material</b>	Copper
<b>Conductor Resistance</b>	65 Ohm
<b>EPC Can View</b>	Public
<b>EU RoHS Compliant</b>	Yes
<b>First Position Marking</b>	Red
<b>Flammability Rating -- Canada</b>	FT1
<b>Flammability Rating -- EU</b>	None
<b>Flammability Rating--USA</b>	VW-1
<b>Impedance -- Balanced</b>	0 Ohm
<b>Impedance -- Unbalanced</b>	108 Ohm
<b>Inductance -- Balanced</b>	0 Microhenry
<b>Inductance -- Unbalanced</b>	.15 Microhenry
<b>Insulation Material</b>	Polyvinyl Chloride (PVC)
<b>Jacket</b>	No
<b>Lower Temperature Rating</b>	-20 Degree Celsius
<b>Number of Conductors</b>	40
<b>Pitch</b>	0.050 Inch
<b>Plating Material</b>	Tin
<b>Primary Configuration</b>	Parallel
<b>Primary Insulation Color</b>	Gray
<b>Primary Insulation Material</b>	Polyvinyl Chloride (PVC)

<b>Propagation Delay -- Balanced</b>	0 Nanosecond
<b>Propagation Delay -- Unbalanced</b>	1.40 Nanosecond
<b>Shape</b>	Flat
<b>Shield</b>	No
<b>Stranding</b>	7 X 36 [ 7 X 0.127]
<b>UL File Number</b>	E42769
<b>UL Listed -- USA</b>	None
<b>UL Recognized -- USA</b>	AWM Style 2651
<b>UL Recognized-- Canada</b>	IA
<b>Upper Temperature Rating -- Canada</b>	105 Degree Celsius
<b>Upper Temperature Rating -- USA</b>	105 Degree Celsius
<b>Voltage Rating -- Canada</b>	300 Volt
<b>Voltage Rating -- EU</b>	>0 to <50 Volt
<b>Voltage Rating--USA</b>	300V
<b>Wire Gauge</b>	28 American Wire Gauge (AWG)

---

©3M 1995-2006

[Product Catalog for Electronic Specialty Markets](#) > [3M™ Cable & Assemblies](#) > [Internal Wiring](#) > [Round Conductor Flat Cable, .050 in Pitch, 3365 Series](#) > [3M™ Round Conductor Flat Cable .050", 3365/40 \(100`NS\)](#)

---

## 3M™ Round Conductor Flat Cable .050", 3365/40 (100`NS) Packaging

**3M Id:** 80-6102-0206-3

**Minimum Order Quantity:** 3.0 RLS

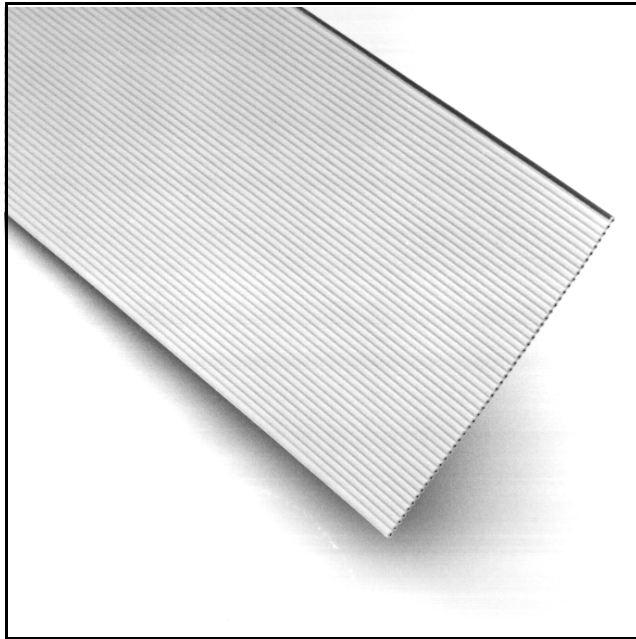
**Case Quantity:** 3.0 RLS

	English	Metric
Length	9.1 INCH	0.231 MTR
Width	9.1 INCH	0.231 MTR
Height	10.7 INCH	0.272 MTR
Gross Weight	16.1500 LBS	7.3255 KG

# 3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, PVC

3365 Series



- 28 AWG wire on .050 inch centers permits mass termination to a broad line of IDC connectors
- Stranded wire provides flexibility and extended product life
- Zippable for branching or discrete termination
- Available in Gray or Black
- RoHS\* compliant

Date Modified: December 12, 2006

TS-0080-15  
Sheet 1 of 2

## Physical



### Insulation

Material: Polyvinyl Chloride (PVC)

Color: Gray Standard or Black (see ordering information)

### Marking

Standard: None

Canadian Option:  AWM 2651 105C 300V VW1 3M NU C  AWM IA 105C 300V FT1 EU <50V

**Conductors:** 28 AWG, 7 x 36 [ 7 x  $\phi$  0.127 ] Tinned Stranded Copper (89% Conductivity)

## Electrical

**Voltage Rating:** USA: 300V

Canada: 300V

EU: <50V

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

### Unbalanced

### Balanced

**Characteristic Impedance:** 102  $\Omega$

172  $\Omega$

**Capacitance:** 14.47 pF/ft [ 47.5 pF/m ]

8.14 pF/ft [ 26.7 pF/m ]

**Inductance:** 0.15  $\mu\text{H}/\text{ft}$  [ 0.49  $\mu\text{H}/\text{m}$  ]

0.24  $\mu\text{H}/\text{ft}$  [ 0.79  $\mu\text{H}/\text{m}$  ]

**Propagation Delay:** 1.47 ns/ft [ 4.86 ns/m ]

1.4 ns/ft [ 4.59 ns/m ]

**Velocity of Propagation:** 69%

73%

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

## Environmental

**Temperature Rating:** -20°C to +105°C

**Flammability Rating:** USA: VW-1

Canada: FT1

"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

UL File No.: E42769, Style No.: 2651



3M is a trademark of 3M Company.

# 3M™ Round Conductor Flat Cable

.050" 28 AWG Stranded, PVC

3365 Series

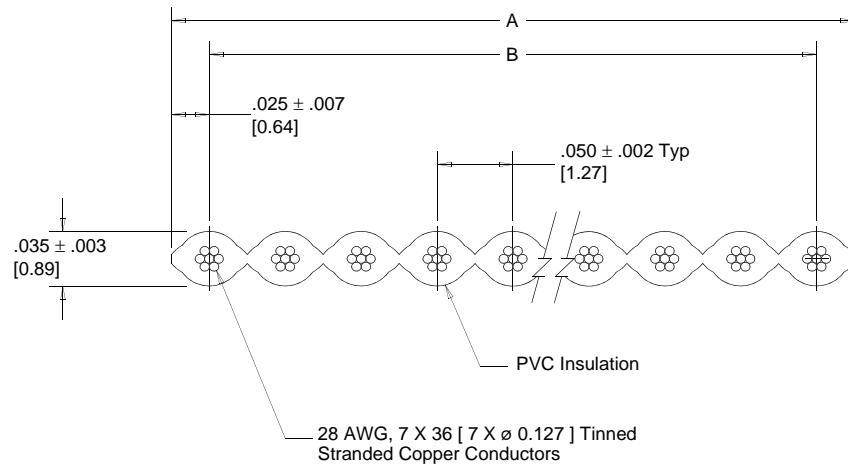


Inch  
[mm]

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

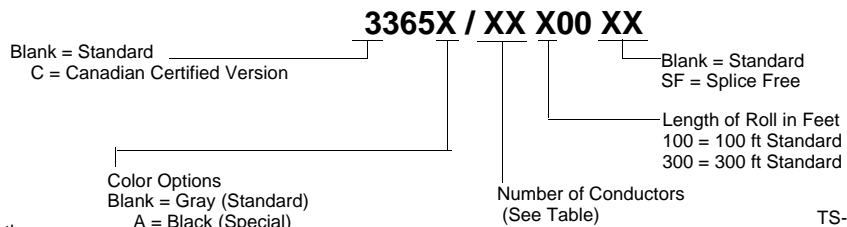
[ ] Dimensions for Reference Only

Number of Conductors	3M Part Number	Dimension A	Dimension B
06	<b>3365/06</b>	0.300 ± .010 [ 7.62 ]	0.250 ± .007 [ 6.35 ]
08	<b>3365/08</b>	0.400 ± .010 [ 10.16 ]	0.350 ± .007 [ 8.89 ]
09	<b>3365/09</b>	0.450 ± .010 [ 11.43 ]	0.400 ± .007 [ 10.16 ]
10	<b>3365/10</b>	0.500 ± .010 [ 12.70 ]	0.450 ± .007 [ 11.43 ]
12	<b>3365/12</b>	0.600 ± .010 [ 15.24 ]	0.550 ± .007 [ 13.97 ]
14	<b>3365/14</b>	0.700 ± .010 [ 17.78 ]	0.650 ± .007 [ 16.51 ]
15	<b>3365/15</b>	0.750 ± .010 [ 19.05 ]	0.700 ± .007 [ 17.78 ]
16	<b>3365/16</b>	0.800 ± .015 [ 20.32 ]	0.750 ± .011 [ 19.05 ]
20	<b>3365/20</b>	1.000 ± .015 [ 25.40 ]	0.950 ± .011 [ 24.13 ]
24	<b>3365/24</b>	1.200 ± .015 [ 30.48 ]	1.150 ± .011 [ 29.21 ]
25	<b>3365/25</b>	1.250 ± .015 [ 31.75 ]	1.200 ± .011 [ 30.48 ]
26	<b>3365/26</b>	1.300 ± .015 [ 33.02 ]	1.250 ± .011 [ 31.75 ]
30	<b>3365/30</b>	1.500 ± .020 [ 38.10 ]	1.450 ± .015 [ 36.83 ]
34	<b>3365/34</b>	1.700 ± .020 [ 43.18 ]	1.650 ± .015 [ 41.91 ]
36	<b>3365/36</b>	1.800 ± .020 [ 45.72 ]	1.750 ± .015 [ 44.45 ]
37	<b>3365/37</b>	1.850 ± .020 [ 46.99 ]	1.800 ± .015 [ 45.72 ]
40	<b>3365/40</b>	2.000 ± .020 [ 50.80 ]	1.950 ± .015 [ 49.53 ]
44	<b>3365/44</b>	2.200 ± .020 [ 55.88 ]	2.150 ± .015 [ 54.61 ]
50	<b>3365/50</b>	2.500 ± .020 [ 63.50 ]	2.450 ± .015 [ 62.23 ]
60	<b>3365/60</b>	3.000 ± .020 [ 76.20 ]	2.950 ± .015 [ 74.93 ]
64	<b>3365/64</b>	3.200 ± .020 [ 81.28 ]	3.150 ± .015 [ 80.01 ]



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

## Ordering Information



Note: Contact 3M for availability of additional conductor counts and/or custom roll lengths.

TS-0080-15  
Sheet 2 of 2



3M is a trademark of 3M Company.