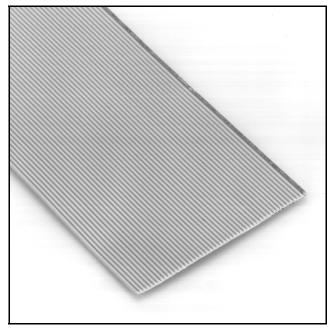
3M[™] Round Conductor Flat Cable

.025" 30 AWG Stranded, PVC

3754 Series



• Close spacing permits higher signal density

- PVC insulation provides excellent flexibility
- 30 AWG stranded on .025 inch spacing allows for mass termination as well as increased flexibility
- Recommended for use with the 82XXX-600X Series .050" x.100" Tripolarized Wiremount Mini Socket (82XXX-600X) and Pak 25 (P25E-XXX-S-TGF)
- RoHS* compliant

Date Modified: March 29, 2005

TS-0875-11 Sheet 1 of 2

Physical

Insulation	
Material:	Polyvinyl Chloride (PVC)
Color:	Gray
Marking:	
Standard:	None
Canadian Option:	RI AWM 20596 105C 30V VW1 3M NU C RIAWM IA 105C 30V FT1 EU <50V
Conductors:	30 AWG 7 X 38 [7 X 0.102] Tinned Stranded Copper

Electrical

Voltage Rating:	USA: 30V	Canada: 30V	EU: <50V
Insulation Resistance:	$>1\times10^{10}\Omega/10$ ft. [3m]		
	Unbalanced	Balanced	
Characteristic Impedance:	73 Ω	122 Ω	
Capacitance:	20.8 pF/ft (68.2 pF/m)	12.0 pF/ft (39.4 pF/m)	
Inductance:	.11 µH/ft (0.36 µH/m)	.18 μH/ft (0.59 μH/m)	
Propagation Delay:	1.51 ns/ft (4.95 ns/m)	1.45 ns/ft (4.76 ns/m)	
Velocity of Propagation:	67%	70%	
Note: Unbalanced is measured between ground	I-signal-ground conductors. Baland	ced is measured between signal c	onductors within a pair.

Environmental

Temperature Rating:-20°C to +105°CFlammability Rating:USA: VW-1 Canada: FT1

*RoHS = Directive 2002/95/EC, UL File No.: E42769, Style No.: 20596 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

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C 3754/26 0.650 ± .006 [16.51] 30 3754/30 0.750 ± .006 [19.05] 32 3754/32 0.800 ± .008 [20.32] 34 3754/34 0.850 ± .009 [21.59] 36 3754/36 0.900 ± .009 [25.40] 40 3754/36 0.900 ± .009 [33.02] 50 3754/50 1.250 ± .009 [31.75] 52 3754/60 1.500 ± .012 [38.10] 68 3754/60 1.500 ± .012 [38.10] 68 3754/80 2.000 ± .015 [50.80] 100 3754/100 2.500 ± .015 [63.50]	Dimension B	Dimension A	3M Part Number	Number of Conductors	
30 3754/30 0.759 ± .006 [19.05 32 3754/32 0.800 ± .008 [20.32 34 3754/34 0.859 ± .009 [21.59 36 3754/36 0.900 ± .009 [23.40 40 3754/30 1.250 ± .009 [23.40 50 3754/50 1.250 ± .009 [23.40 50 3754/60 1.500 ± .012 [43.18 80 3754/60 1.500 ± .012 [43.18 80 3754/68 1.700 ± .012 [43.18 80 3754/60 1.500 ± .015 [50.80 100 3.754/80 1.700 ± .012 [43.18 80 3754/80 1.700 ± .012 [43.18 80 3754/80 1.700 ± .012 [43.18 100 3.754/100 2.500 ± .015 [50.80 100 3.754/80 1.700 ± .012 [43.18 80 3754/80 1.700 ± .012 [43.18 100 3.005 (0.31) 100 3.754/80 1.700 ± .012 [43.18 10.64] .005 .005 10.64] .005 .005 .004] .005 .005 .004] .005 .001 .000 .001 .001 .	0] 0.475 ± .004 [12.07]	0.500 ± .006 [12.70]	3754/20	20	
30 37,43-30 0,500 ± 0.00 ± 0.00 [20.32 32 3754/32 0,800 ± 0.00 [20.32 36 3754/32 0,900 ± 0.00 [20.32 40 3754/30 1,250 ± 0.00 [31.72 50 3754/52 1,300 ± 0.00 [13.02 60 3754/68 1,700 ± 0.12 [38.10 68 3754/68 1,700 ± 0.12 [38.10 68 3754/80 2,000 ± 0.015 [50.80 100 3754/100 2,500 ± .015 [63.50 100 3754/100 2,500 ± .015 [63.50 100 3754/100 2,500 ± .015 [63.50 100 3754/100 2,500 ± .015 [63.50 100 3754/100 2,500 ± .015 [63.50 100 3754/100 2,500 ± .015 [63.50 100 3754/100 2,500 ± .015 [63.50 100 3754/100 2,500 ± .015 [63.50 100 3754/100 2,500 ± .015 [63.50 100 3754/100 2,500 ± .015 [63.50 100 30,4WG 7 X 38 (7 X 0.102) Timed PVC Insi 100 30,4WG 7 X 38 (7 X 0.102) Timed PVC Insi 100 30,4WG 7 X 38 (7 X 0.102) Timed] 0.625 ± .004 [15.88]	0.650 ± .006 [16.51]	3754/26	26	
34 3754/34 0.850 ± .009 [21.59 36 3754/36 0.900 ± .009 [32.86 40 3754/40 1.000 ± .009 [31.75 52 3754/52 1.300 ± .009 [31.75 52 3754/56 1.500 ± .012 [38.10 68 3754/68 1.700 ± .012 [38.10 68 3754/68 1.700 ± .012 [38.10 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 103 ± .005 .013 ± .005 .016 10.41 .005 .015 [7.30 ± .012] Timed .025 ± .003 .016 ± .015 .016 ± .015 .025 ± .003 .016 ± .015 ± .016] 0.725 ± .006 [18.42]	0.750 ± .006 [19.05]	3754/30	30	(OPTIONAL)
36 3754/36 0.900 ± .009 [22.86 40 3754/40 1.000 ± .009 [31.72 52 3754/52 1.300 ± .009 [31.72 60 3754/68 1.700 ± .012 [38.10 68 3754/68 1.700 ± .012 [38.10 68 3754/68 1.200 ± .012 [38.10 68 3754/40 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 025 ± .003 .005 .003 0.64] .005 .013 ± .005 10.84] .003 .003 0.84] .004 GYX 38 (7 X 0.102) Timed] 0.775 ± .006 [19.69]	0.800 ± .008 [20.32]	3754/32	32	
40 3754/40 1.000 ± .009 [25.40 50 3754/50 1.250 ± .009 [31.75 52 3754/52 1.300 ± .001 [33.02 60 3754/60 1.500 ± .012 [38.10 68 3754/68 1.700 ± .012 [38.10 80 3754/100 2.500 ± .015 [53.50 100 3754/100 2.500 ± .015 [63.50 025 ± .003 0 30 AWG 7 X 38 (7 X 0.102) Tinned 9VC Insi 30 AWG 7 X 38 (7 X 0.102) Tinned PVC Insi] 0.825 ± .006 [20.96]	0.850 ± .009 [21.59]	3754/34	34	
50 3754/50 1.250 ± .009 [31.75 52 3754/52 1.300 ± .009 [33.02 60 3754/60 1.500 ± .012 [38.10 68 3754/68 1.700 ± .012 [43.18 80 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 10.64 .013 ± .005 .025 ± .003 10.64 .013 ± .005 .025 ± .003 10.64 .012 ± .003 .012 ± .003 10.64 .012 ± .003 .012 ± .003 10.75 ± .003 .003 ± .005 .012 ± .002 ± .012 ± .003 10.75 ± .003 .012 ± .003 ± .003 .012 ± .003 ± .003 10.84 .013 ± .005 ± .003 ± .003 ± .003 ± .003 ± .003 ± .003 ± .003 ± .003 ± .003 ± .003 ± .003 ± .003 ± .003 ± .003 ± .003 ±	0.875 ± .006[22.23]	0.900 ± .009 [22.86]	3754/36	36	
S2 3754/52 1.300 ± .009 [33.02 60 60 3754/60 1.500 ± .012 [43.18 80 3754/80 2.000 ± .015 [50.80 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 10.61 10.61 10.61 10.61 10.61 .025 ± .003 [0.64] .013 ± .005 .010 .010] Timed PVC Inst .04 .05 .010] .010] Timed PVC Inst] 0.975 ± .006 [24.77]	1.000 ± .009[25.40]	3754/40	40	
52 3754/52 1.300 ± .009 [33.02 60 3754/60 1.500 ± .012 [43.18 80 3754/68 1.700 ± .012 [43.18 80 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 3754/100 2.500 ± .015 [63.50 100 30 AWG 7 X 38 (7 X 0.102) Tinned PVC Inst 30 AWG 7 X 38 (7 X 0.102) Tinned PVC Inst Stranded Copper Conductors PVC Inst		1.250 ± .009 [31.75]	3754/50	50	
60 3754/60 1.500 ± .012 [38.10 68 3754/88 1.700 ± .012 [43.18 80 3754/80 2.000 ± .015 [50.80 100 3754/100 2.500 ± .015 [63.50			3754/52	52	
68 3754/68 1.700 ±.012 [43.18 80 3754/80 2.000 ±.015 [50.80 100 3754/100 2.500 ±.015 [63.50				60	
80 3754/80 2.000 ±.015 [50.80 100 3754/100 2.500 ±.015 [63.50					
100 3754/100 2.500 ±.015 [63.50 100 3754/100 2.500 ±.015 [63.50 100 3754/100 2.500 ±.015 [63.50 100 3754/100 2.500 ±.015 [63.50 100 3754/100 2.500 ±.015 [63.50 100 3754/100 2.500 ±.015 [63.50 100 3754/100 2.500 ±.015 [63.50 100 3754/100 2.500 ±.015 [63.50 100 300 300 100 300 300 100 300 300 100 300 300 100 300 300 100 300 300 100 300 300 100 300 300 100 300 300 100 300 300 100 300 300 100 300 300 100 300 300 1000 300 300 1000 300 300 1000 300 300 1000					
Note: 1. Red marking on one edge of cable designates wire #1.					
Note: 1. Red marking on one edge of cable designates wire #1.] 2.475 ± .012 [62.87]	2.500 ± .015 [63.50]	3/54/100	100	
1. Red marking on one edge of cable designates wire #1.			0.102) Tinned	0 AWG 7 X 38 (7 X 0	.025 ± .003 [0.64]
Ordering Information	Inch [mm] Tolerance Unless Noted .0 .00 .000 Inch ±.1 ±.01 ±.005 [] Dimensions for Reference only				
Ordering information					
					Ordering Information
Blank = Standard 3754/XX C = Canadian Certified Version Number of Conductors (See Table) 2. Standard lengths of 300 feet. Standard lengths of 300 feet.	TS-0875-11 Sheet 2 of 2				C = Canadian C Note:

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