

3M Worldwide : United States : Electronics Manufacturing

Product Catalog for Electronic Specialty Markets ➤ 3M[™] Cable & Assemblies ➤ External Wiring ➤ .050" Round, Jacketed, Flat Cable, 3759 Series >

3M™ Round, Jacketed, Flat Cable, 3759/09, 100 ft. SF

9 conductors, .050" 28 AWG Stranded, Mass-Term, PVC/PVC, 100 foot Splice-free roll.

GTIN(UPC/EAN): 0 00 51138 42092 5

3M Id: 80-6108-0256-5

Characteristics

11.9 pF/ft (39.0 pF/m) **Balanced Capacitance**

Balanced Inductance .21 microHenry/ft (0.69 microHenry/m)

Balanced Propagation Delay 1.58 ns/ft (5.18 ns/m)

UL CL2 75C 28 AWG OR AWM 20267 3M NU CUL AWM IIA/B 80C 300V **Cable Marking**

Cable Style Round

11.9 Picofarad Capacitance -- Balanced 16.7 Picofarad **Capacitance -- Unbalanced** Characteristic Impedance -- Balanced 133 Ohm 90 Ohm

Characteristic Impedance --

Unbalanced

ColorBlackConductor MaterialCopperConductor Resistance65 Ohm

Conductors 28 AWG 7x36 [7x0.127] Tinned Stranded Copper

EPC Can View Public
EU RoHS Compliant Yes
First Position Marking Red
Flammability Rating -- Canada FT1
Flammability Rating -- EU None

Flammability Rating--USA N.E.C. 725, CL2

Impedance -- Balanced133 OhmImpedance -- Unbalanced90 Ohm

Inductance -- Balanced .21 Microhenry
Inductance -- Unbalanced .14 Microhenry
Inner Wrap Polyester Film

Insulation Material Polyvinyl Chloride (PVC)

Insulation Resistance (Primary Cable) >1x10^10 Ohm/10ft. [3m]

Jacket Yes
Jacket Color Black

Jacket Material Polyvinyl Chloride (PVC)

Lower Temperature Rating -20 Degree Celsius

Marking Standard (UL) CL2 75C 28 AWG OR AWM 20267 3M NU C AWM II A/B 80C 300V FT1 EU

<50V

Number of Conductors 9

Pitch 0.050 Inch

Plating Material Tin

Primary Configuration Parallel Split

Primary Insulation Color Gray

Primary Insulation Material Polyvinyl Chloride (PVC)

Primary Material PVC

Propagation Delay -- Balanced 1.58 Nanosecond
Propagation Delay -- Unbalanced 1.50 Nanosecond

Repeat Length 2.375 Inch
Shape Round
Shield No

Stranding 7 X 36 [7 X 0.127]

Temperature Rating: Canada 80 Degree C

Temperature Rating: USA N.E.C. 725, CL2 or AWM: -20 DegreeC to +80 DegreeC

UL File Number E118773

UL Listed -- USA N.E.C. Article 725, CL2

UL Recognized -- USA AWM Style 20267

UL Recognized-- Canada IIA/B

Unbalanced Capacitance 16.7 pF/ft (54.8 pF/m)

Unbalanced Inductance 0.14 microHenry/ft (0.46 microHenry/m)

Unbalanced Propagation Delay1.50 ns/ft (4.92 ns/m)Upper Temperature Rating -- Canada80 Degree CelsiusUpper Temperature Rating -- USA80 Degree Celsius

Velocity of Propagation--Balanced 64%

Velocity of Propagation--Unbalanced 68%

Voltage Rating -- Canada 300 Volt

Voltage Rating -- EU >0 to <50 Volt

Voltage Rating--USA N.E.C. 725, CL2 or AWM; 300V

Voltage Rating: Canada 300V Voltage Rating: EU <50V

Wire Gauge 28 American Wire Gauge (AWG)



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Round, Jacketed, Flat Cable, 3759 Series > 3M[™] Round, Jacketed, Flat Cable, 3759/09, 100 ft. SF

3M[™] Round, Jacketed, Flat Cable, 3759/09, 100 ft. SF Packaging

3M Id: 80-6108-0256-5

Minimum Order Quantity: 3.0 RLS

Case Quantity: 3.0 RLS

	English	Metric
Length	10.8 INCH	0.274 MTR
Width	10.4 INCH	0.264 MTR
Height	4.9 INCH	0.124 MTR
Gross Weight	4.5000 LBS	2.0412 KG

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3M™ Round, Jacketed, Flat Cable

.050" 28 AWG Stranded, Mass-Term, PVC/PVC

3759 Series



- Round construction permits easier routing
- 28 AWG wire on .050 inch centers permits mass termination to broad line of IDC connectors
- Continuous bond and continuous split/bond allows for mass termination of IDĈ connectors
- Available in continuous bond (non-split) wire for ease of cable fabrication
- Meets external wiring requirements of National Electrical Code, Article 725 (CL2)
- Primary cable is zippable for branching or discrete terminations
- UL listed for USA and Canadian markets
- RoHS* compliant

Date Modified: November 15, 2006

TS-0070-22 Sheet 1 of 2

Physical

Jacket Material: Polyvinyl Chloride (PVC); Color: Black

Primary Material: PVC; Color: Grav

Marking Standard: (UL) CL2 75C 28 AWG or AWM 20267 3M NU C 7 WWM II A/B 80C 300V FT1 EU <50V

Conductors: 28 AWG, 7×36 AWG [$7 \times \emptyset$ 0.217] Tinned Stranded Copper

Inner Wrap: Polyester Film

Electrical

Voltage Rating: USA: N.E.C. 725, CL2 or AWM; 300V Canada: 300V EU: <50V

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

Unbalanced **Balanced**

Characteristic Impedance: 90Ω 133Ω

> Capacitance: 16.7 pF/ft [54.8 pF/m] 11.9 pF/ft [39.0 pF/m] **Inductance:** $0.13 \mu H/ft [0.44 \mu H/m]$ $0.21 \, \mu H/ft \, [0.69 \, \mu H/m]$

Propagation Delay: 1.50 ns/ft [4.92 ns/m] 1.58 ns/ft [5.18 ns/m]

Velocity of Propagation: 68% 64%

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

Environmental

Temperature Rating: USA: CL2; 75°C or AWM; -20°C to +80°C Canada: 80°C

Flammability Rating: USA: N.E.C. 725, CL2 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 prolybromianted 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.: E118773, Power Limited Circuit Cable: CL2 (or AWM Style 20267)

3M™ Round, Jacketed, Flat Cable

.050" 28 AWG Stranded, Mass-Term, PVC/PVC

3759 Series

