

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

76018WS Multi-Conductor - 300V Foil/Spiral Shield, Continuous Flexing Data Applications Up to 6 Million Flex Life Cycles



For more Information
please call

1-800-Belden1

General Description:

28 AWG stranded (7x36) tinned copper conductors, PVC insulation, Aluminum/Polyester Foil Shield, Tinned copper spiral shield, 90% coverage, oil-resistant PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
18	28	7x36	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.254

Insulation Color Code Chart:

Number	Color
1	Black
2	Red
3	White
4	Green
5	Orange
6	Blue
7	Brown
8	Yellow
9	Violet
10	Slate
11	Pink
12	Tan
13	Red/Green
14	Red/Yellow
15	Red/Black
16	White/Black
17	White/Red
18	White/Green

Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Aluminum/Mylar	100.000
2	Serve	TC - Tinned Copper	90.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.016

Overall Cable

Overall Nominal Diameter: 7.163 mm

Mechanical Characteristics (Overall)

Bulk Cable Weight:	81.851 Kg/Km
Max. Recommended Pulling Tension:	137.894 N
Min. Bend Radius/Minor Axis:	58.420 mm
Min. Bend/Installation:	58.420 mm
Min. Bend Radius (Continuous Flexing):	58.420 mm
Flex Cycle Rating:	6 Million Flexes

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

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CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
MIL Order #39 (China RoHS):	Yes
Customer Part Number Reference Specification:	AWM/STYLE 10002, AWM/STYLE 2661, CSA AWM I/II A/B, EU Directive 2011/65/EU(RoHS2), REACH Regulation (EC 1907/2006), California Proposition 65

Flame Test

CSA Flame Test:	FT4
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Suitability

Suitability - Burial:	Yes
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Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m)
0.722

Nom. Capacitance Conductor to Conductor:

Freq. (MHz)	Capacitance (pF/m)
0.001	82.025

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
219.827

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
11.812

Max. Operating Voltage - UL:

Voltage
300V

Notes (Overall)

Notes: Temperature Range -10 to 105°C(static), +5 to 105°C (dynamic)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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