Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

77805W Multi-Conductor - 600V Unshielded, Continous Flexing Applications Up to 14 Million Flex Life Cycles



For more Information please call

1-800-Belden1

General Description:

18 AWG stranded (105x38) bare copper conductors, PVC insulation, oil-resistant overall PVC jacket.

Physical Characteristics (Overall)	
Conductor AWG:	
# Conductors AWG Stranding Conductor Material Dia. (mm)	
4 18 105x38 BC - Bare Copper 1.321	
Total Number of Conductors:	5
Ground Wire	
Ground Wire (Y/N):	Y
Ground Wire AWG:	18
Ground Wire Stranding:	105x38
Ground Wire Conductor Material:	BC - Bare Copper
Ground Wire Insulation Material:	PVC - Polyvinyl Chloride
Insulation Insulation Material:	
Insulation Material Wall Thickness (mm) Dia. (mm)	
PVC - Polyvinyl Chloride 0.559 2.438	
Insulation Color Code Chart:	
Color Description	
Red Individually Numbered	
Yellow/Green Ground	
Outer Shield	
Outer Shield Separator Material:	Tissue Tape, 25% Overlap, Min.
Outer Jacket Outer Jacket Material:	
Outer Jacket Material Nom. Wall Thickness (mm) PVC - Polyvinyl Chloride 0.889	
Overall Cable	
Overall Nominal Diameter:	9.017 mm
Mechanical Characteristics (Overall)	
Storage Temperature Range:	-40°C To +90°C
Installation Temperature Range:	Flexing: -5°C To +90°C
Operating Temperature Range:	Flexing: -5°C To +90°C
Bulk Cable Weight:	297.640 Kg/Km
Max. Recommended Pulling Tension:	293.581 N
Min. Bend Radius/Minor Axis:	71.120 mm
Min. Bend/Installation:	71.120 mm
Min. Bend Radius (Continuous Flexing):	71.120 mm
Flex Cycle Rating:	14 Million Flexes
Applicable Specifications and Agency Compliance (C	Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	THHN/THWN Singles
AWM Specification:	UL Style 2587 (600 V 90°C)
CSA Specification:	600 V AWM I/II A/B
EU Directive 2011/65/EU (ROHS II):	Yes
Other Specification:	AWM/STYLE 10012, AWM/STYLE 2587, AWM I/II A/B, FT1, VDE 0472, Section 803 Oil Test, EU Low Voltage Directive 2014/35/EC, EU Directive 2011/65/EU(RoHS2), REACH Regulation (EC 1907/2006), California Proposition 65



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Flame Test					
CSA Flame Test:	FT	1			
Electrical Characteristics	(Overall)				
Nom. Inductance:	,				
Inductance (µH/m)					
0.623					
Nom. Capacitance Cond. to Other	Cond. & Ground:				
Description Freq. (kHz	capacitance (pF/m)				
Nom. Cond. to Cond 1.000	101.711				
Nom. Conductor DC Resistance:					
DCR @ 20°C (Ohm/km)					
21.655					
Put Ups and Colors:					
Item # Putup	Ship Weight	Color	Notes	Item Desc	

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