Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



77807WS Multi-Conductor - 600V Shielded, Continous Flexing Applications Up to 14 Million Flex Life Cycles



Min. Bend Radius/Minor Axis:

Min. Bend Radius (Continuous Flexing):

Min. Bend/Installation:

Flex Cycle Rating:

For more Information please call

1-800-Belden1

General Description:

18 AWG stranded (105x38) bare copper conductors, PVC insulation, oil-resistant PVC inner jacket, tinned copper braid shield, 85% coverage, oil-resistant overall PVC jacket.

Physical Characteristics (Overall) Conductor	
AWG:	
# Conductors AWG Stranding Conductor Material Dia. (mm) 6 18 105x38 BC - Bare Copper 1.321	
Total Number of Conductors:	7
Ground Wire Ground Wire (Y/N):	Υ
Ground Wire (17K).	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	
Black Individually Numbered	
Yellow/Green Ground	
Inner Jacket	
Inner Jacket Material: Inner Jacket Material Nom Wall (mm) Nom Dia (mm)	
Inner Jacket Material: Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363	
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm)	
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363	
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material:	
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%)	Tissue Tape, 25% Overlap, Min.
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%) TC - Tinned Copper 85.000	Tissue Tape, 25% Overlap, Min.
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%) TC - Tinned Copper 85.000 Outer Shield Separator Material: Outer Jacket Outer Jacket Material: Outer Jacket Material: Nom. Wall Thickness (mm)	Tissue Tape, 25% Overlap, Min.
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%) TC - Tinned Copper 85.000 Outer Shield Separator Material: Outer Jacket Outer Jacket Material:	Tissue Tape, 25% Overlap, Min.
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%) TC - Tinned Copper 85.000 Outer Shield Separator Material: Outer Jacket Outer Jacket Material: Outer Jacket Material: Nom. Wall Thickness (mm)	Tissue Tape, 25% Overlap, Min.
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%) TC - Tinned Copper 85.000 Outer Shield Separator Material: Outer Jacket Outer Jacket Material: Outer Jacket Material: PVC - Polyvinyl Chloride 1.143	Tissue Tape, 25% Overlap, Min.
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%) TC - Tinned Copper 85.000 Outer Shield Separator Material: Outer Jacket Outer Jacket Material: Outer Jacket Material: Outer Jacket Material Nom. Wall Thickness (mm) PVC - Polyvinyl Chloride 1.143 Overall Cable	
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%) TC - Tinned Copper 85.000 Outer Shield Separator Material: Outer Jacket Outer Jacket Material: Outer Jacket Material Nom. Wall Thickness (mm) PVC - Polyvinyl Chloride 1.143 Overall Cable Overall Nominal Diameter:	
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%) TC - Tinned Copper 85.000 Outer Shield Separator Material: Outer Jacket Outer Jacket Outer Jacket Material Nom. Wall Thickness (mm) PVC - Polyvinyl Chloride 1.143 Overall Cable Overall Nominal Diameter:	13.513 mm
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%) TC - Tinned Copper 85.000 Outer Shield Separator Material: Outer Jacket Outer Jacket Material: Over Jacket Material: Outer Jacket Material: Outer Jacket Material: Over Jacket Material: Ov	13.513 mm -40°C To +90°C
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm) PVC - Polyvinyl Chloride 0.762 10.363 Outer Shield Outer Shield Material: Outer Shield Material Coverage (%) TC - Tinned Copper 85.000 Outer Shield Separator Material: Outer Jacket Outer Jacket Material: Outer Jacket Material: Outer Jacket Material Nom. Wall Thickness (mm) PVC - Polyvinyl Chloride 1.143 Overall Cable Overall Nominal Diameter: Mechanical Characteristics (Overall) Storage Temperature Range: Installation Temperature Range:	13.513 mm -40°C To +90°C Flexing: -5°C To +90°C

109.220 mm 109.220 mm

109.220 mm 14 Million Flexes

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plicable Standards & Environmental Program	s
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
lame Test	
CSA Flame Test:	FT1

Electrical Characteristics (Overall)

Nom. Inductance:

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Inductance (µH/m) 0.623

Nom. Capacitance Cond. to Other Cond. & Ground:

Description	Freq. (kHz)	Capacitance (pF/m)
Nom. Cond. to Cond	1.000	147.645
Nom. Ground.	1.000	265.761

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 20.998

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 6.660

Put Ups and Colors:

Item# Putup Ship Weight Color Notes Item Desc	
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Revision Number: 0 Revision Date: 09-27-2017

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