Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

77804WS Multi-Conductor - 600V Shielded, 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 PVC inner jacket, tinned copper braid shield, 85% coverage, oil-resistant overall PVC jacket.

Physical Characteristics (Overall)	
Physical Characteristics (Overall) Conductor	
AWG:	
# Conductors AWG Stranding Conductor Material Dia. (mm) 3 18 105x38 BC - Bare Copper 1.321	
Total Number of Conductors:	4
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	
Black Individually Numbered	
Yellow/Green Ground	
Inner Jacket Inner Jacket Material:	
Inner Jacket Material Nom Wall (mm) Nom. Dia. (mm)	
PVC - Polyvinyl Chloride 0.635 7.772	
Outer Shield Outer Shield Material:	
Outer Shield MaterialCoverage (%)TC - Tinned Copper85.000	
Outer Shield Separator Material:	Tissue Tape, 25% Overlap, Min.
Outer Jacket Outer Jacket Material:	
Outer Jacket Material Nom. Wall Thickness (mm)	
PVC - Polyvinyl Chloride 1.016	
Overall Cable	
Overall Nominal Diameter:	10.516 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:	315.498 Kg/Km
Max. Recommended Pulling Tension:	271.340 N
-	271.340 N 52.578 mm
Max. Recommended Pulling Tension:	
Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis:	52.578 mm



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pplicable Specifications and Agency Compliance ((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
lame Test	
CSA Flame Test:	FT1
Inductance: Inductance (µH/m) 0.623	
Inductance (μH/m) 0.623 Iom. Capacitance Cond. to Other Cond. & Ground:	
Inductance (μH/m) 0.623 Iom. Capacitance Cond. to Other Cond. & Ground: Description Freq. (kHz) Capacitance (pF/m)	
Inductance (μH/m) 0.623 Iom. Capacitance Cond. to Other Cond. & Ground: Description Freq. (kHz) Capacitance (pF/m) Nom. Cond. to Cond 1.000 147.645	
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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)	
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	
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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	
Inductance (µH/m) 0.623 Iom. 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 Iom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 20.998 Iominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/km)	

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