# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



## 77604WS Multi-Conductor - 600V Shielded, Continous Flexing Applications Up to 14 Million Flex Life Cycles



Min. Bend Radius (Continuous Flexing):

Flex Cycle Rating:

For more Information please call

1-800-Belden1

## **General Description:**

16 AWG stranded (168x38) bare copper conductors, PVC insulation, oil-resistant PVC inner jacket, tinned copper braid shield, 85% coverage, oil-resistant overall PVC jacket.

Black in all Observatoristics (Osservit)	int overall 1 vo jacket.		
Physical Characteristics (Overall) Conductor			
AWG:			
# Conductors AWG Stranding Conductor Material Dia. (mm)			
3   16   168x38   BC - Bare Copper   1.702			
Total Number of Conductors:	4		
Ground Wire			
Ground Wire (Y/N):	Y		
Ground Wire AWG:	16		
Ground Wire Stranding:	168x38		
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   2.819			
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 0.762 8.941			
Outer Shield			
Outer Shield Material:  Outer Shield Material Coverage (%)			
TC - Tinned Copper   85.000			
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:	11.684 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:	398.838 Kg/Km		
Max. Recommended Pulling Tension:	413.683 N		
Min. Bend Radius/Minor Axis:	93.980 mm		
Min. Bend/Installation:	93.980 mm		

93.980 mm 14 Million Flexes

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plicable Standards & Environmental Progra	ms
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:

-

Inductance (µH/m) 0.591

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

Description	Freq. (kHz)	Capacitance (pF/m)
Nom. Cond. to Cond	1.000	167.331
Nom. Ground.	1.000	301.852

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 13.124

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 9.515

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc

Revision Number: 0 Revision Date: 09-27-2017

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