

METRIC MEASUREMENT VERSION

77004WS Multi-Conductor - 600V Shielded, Continuous Flexing Applications Up to 14 Million Flex Life Cycles



For more Information
please call

1-800-Belden1

General Description:

20 AWG stranded (63x38) 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) |
|--------------|-----|-----------|--------------------|-----------|
| 3 | 20 | 63x38 | BC - Bare Copper | 1.016 |

Total Number of Conductors: 4

Ground Wire

| | |
|----------------------------------|--------------------------|
| Ground Wire (Y/N): | Y |
| Ground Wire AWG: | 20 |
| Ground Wire Stranding: | 63x38 |
| 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 | 2.134 |

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 | 7.036 |

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 | 0.889 |

Overall Cable

Overall Nominal Diameter: 9.525 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: | 245.553 Kg/Km |
| Max. Recommended Pulling Tension: | 182.376 N |
| Min. Bend Radius/Minor Axis: | 48.260 mm |
| Min. Bend/Installation: | 48.260 mm |
| Min. Bend Radius (Continuous Flexing): | 48.260 mm |
| Flex Cycle Rating: | 14 Million Flexes |

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Applicable 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 |

Flame Test

| | |
|-----------------|-----|
| CSA Flame Test: | FT1 |
|-----------------|-----|

Electrical Characteristics (Overall)

Nom. Inductance:

| |
|-------------------|
| Inductance (µH/m) |
| 0.656 |

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

| Description | Freq. (kHz) | Capacitance (pF/m) |
|--------------------|-------------|--------------------|
| Nom. Cond. to Cond | 1.000 | 131.240 |
| Nom. Ground. | 1.000 | 236.232 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 35.107 |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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