# **Detailed Specifications & Technical Data**





73405WS Multi-Conductor - 600V Shielded, Light to Moderate Flexing Applications Up to 1 Million Flex Life Cycles



For more Information please call

1-800-Belden1

# **General Description:**

14 AWG stranded (41x30) 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) BC - Bare Copper **Total Number of Conductors:** 5 **Ground Wire** Ground Wire (Y/N): Ground Wire AWG: 14 **Ground Wire Stranding:** 41X30 **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 2.997 Insulation Color Code Chart:

| Color        | Description           |  |  |
|--------------|-----------------------|--|--|
| Black        | Individually Numbered |  |  |
| Yellow/Green | Ground                |  |  |

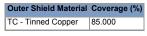
#### **Inner Jacket**

Inner Jacket Material:

| Inner Jacket Material    | Nom Wall (mm) | Nom. Dia. (mm) |
|--------------------------|---------------|----------------|
| PVC - Polyvinyl Chloride | 0.889         | 10.135         |

#### **Outer Shield**

Outer Shield Material:



Outer Shield Separator Material:

Tissue Tape, 25% Overlap, Min.

# Outer Jacket

Outer Jacket Material:

| PVC - Polyvinyl Chloride 1.321 | Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------------|--------------------------|--------------------------|
|                                | PVC - Polyvinyl Chloride | 1.321                    |

#### **Overall Cable**

Overall Nominal Diameter: 13.640 mm

| chanical 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:                     | 595.280 Kg/Km          |  |  |
| Max. Recommended Pulling Tension:      | 778.435 N              |  |  |
| Min. Bend Radius/Minor Axis:           | 68.580 mm              |  |  |
| Min. Bend/Installation:                | 68.580 mm              |  |  |
| Min. Bend Radius (Continuous Flexing): | 68.580 mm              |  |  |
| Flex Cycle Rating:                     | 1 Million Flexes       |  |  |

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| able Specifications and Agency Compliance (Ov | verall)   |  |  |  |  |
|---|---|--|--|--|--|
| able Standards & Environmental Programs       |   |  |  |  |  |
| C/(UL) Specification:                         | THHN/THWN Singles   |  |  |  |  |
| VM Specification:                             | UL Style 2587 (600 V 90°C)  |  |  |  |  |
| A Specification:                              | 600 V AWM I/II A/B  |  |  |  |  |
| Directive 2011/65/EU (ROHS II):               | Yes   |  |  |  |  |
| her Specification:                            | 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                        |  |  |  |  |
| Test  |   |  |  |  |  |
| A Flame Test:                                 | FT1   |  |  |  |  |
|   | able Specifications and Agency Compliance (Ovable Standards & Environmental Programs (C/(UL) Specification:  VM Specification:  A Specification:  Directive 2011/65/EU (ROHS II): ther Specification:  Test A Flame Test: |  |  |  |  |

# **Electrical Characteristics (Overall)**

#### Nom. Inductance:

Α

Inductance (µH/m) 0.558

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

| Description        | Freq. (kHz) | Capacitance (pF/m) |  |
|--------------------|-------------|--------------------|--|
| Nom. Cond. to Cond | 1.000       | 187.017            |  |
| Nom. Ground.       | 1.000       | 337.943            |  |

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 8.531

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 5.086

# **Put Ups and Colors:**

| Item #         | Putup  | Ship Weight | Color | Notes | Item Desc               |
|----------------|--------|-------------|-------|-------|-------------------------|
| 73405WS 008100 | 100 FT | 45.400 LB   | GRAY  |       | 14AWG 41/30 5C SHIELDED |
| 73405WS 008500 | 500 FT | 205.500 LB  | GRAY  |       | 14AWG 41/30 5C SHIELDED |

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