



**Part Number:** 7429WS

600V FCC Moderate Flex, (24) 16 AWG (26x30) BC+Grd,  
PVC-NYL/TPE/TPE, TC Braid Shld, TC-ER

## Product Description

Twenty-four 16 AWG stranded (26x30) bare copper conductors plus ground wire, PVC-Nylon insulation, TPE inner jacket, braided tinned copper shield, TPE outer jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

| Element                            | AWG | Stranding | Material         | No. of Conductors |
|------------------------------------|-----|-----------|------------------|-------------------|
|                                    | 16  | 26x30     | BC - Bare Copper | 24                |
| Ground Wire                        | 16  | 26x30     | BC - Bare Copper |                   |
| <b>Total Number of Conductors:</b> |     |           |                  | 25                |

#### Insulation:

| Material                             | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| PVC/Nylon - Polyvinyl Chloride/Nylon | 0.015 in               |
| PVC - Polyvinyl Chloride             | 0.005 in               |
| Nylon                                |                        |

#### Color Chart 1:

| Number                | Color |
|-----------------------|-------|
| Individually Numbered | Black |

## Stranding:

| Lay Length |
|------------|
| Yes mm     |

## Innerjacket:

| Material                      | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.676 in         | 0.025 in               |

## Outershield 1:

| Type  | Material           | Coverage [%] | Nominal Diameter |
|-------|--------------------|--------------|------------------|
| Braid | TC - Tinned Copper | 85 %         | 0.704 in         |

## Outerjacket 1:

| Material                      | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------|------------------|------------------------|
| TPE - Thermoplastic Elastomer | 0.87 in          | 0.08 in                |

## Electrical Characteristics

### Conductor DCR:

| Nominal Conductor DCR |
|-----------------------|
| 4 Ohm/1000ft          |

## Use

|                                    |                  |
|------------------------------------|------------------|
| Suitability - Oil Resistance:      | Yes - Oil Res II |
| Suitability - Burial:              | Yes              |
| Suitability - Sunlight Resistance: | Yes              |
| Flex Cycle Rating:                 | 1 Million Flexes |
| Max Recommended Pulling Tension:   | 875 lbs          |

## Safety

|                                |   |
|--------------------------------|---|
| C(UL) Flammability:            | FT4   |
| IEEE Flammability:             | 1202  |
| UL Flammability:               | UL1685 FT4/IEEE 1202 Vertical Tray Flame Test |
| Suitability - Non-Halogenated: | No  |

## Temperature Range

|                       |                |
|-----------------------|----------------|
| Operating Temp Range: | -40°C To +90°C |
|-----------------------|----------------|

|                   |                          |
|-------------------|--------------------------|
| Other Temp Range: | Flexing: -5°C To +90 °C  |
| UL Temp Rating:   | 90°C (UL AWM Style 2587) |

## Mechanical Characteristics

|                                       |        |
|---------------------------------------|--------|
| Min Bend Radius (Continuous Flexing): | 8.7 in |
|---------------------------------------|--------|

## Part Number

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Standards

|                                   |                                  |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| CEC/C(UL) Specification:          | CEC/C(UL) Specification          |
| CSA AWM Specification:            | CSA Specification                |
| MII Order #39 (China RoHS):       | MII Order #39 (China RoHS)       |
| NEC/(UL) Specification:           | NEC/(UL) Specification           |
| UL AWM Style:                     | AWM Specification                |
| EU Directive Compliance:          | EU Directive 2003/11/EC (BFR)    |

## History

## Product Variants

| Part Number    | Color  | Put-Up Type | Length  |
|----------------|--------|-------------|---------|
| 7429WS 0601000 | CHROME | Reel        | 1000 ft |
| 7429WS 060250  | CHROME | Reel        | 250 ft  |

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