



Product: [76007WS](#)

MachFlex™, 7 C #28 Str TC, SRPVC Ins, OS+TC Srv, PVC Jkt, CMG

Request Sample

Product Description

MachFlex™ for High Flex, 7 Conductor 28AWG (7x36) Tinned Copper, SRPVC Insulation, Overall Beldfoil®+Tinned Copper Serve(90%) Shield, PVC Outer Jacket, CMG

Technical Specifications

Physical Characteristics (Overall)

| Conductor        |           |                    |                   |
|------------------|-----------|--------------------|-------------------|
| AWG              | Stranding | Material           | No. of Conductors |
| 28               | 7x36      | TC - Tinned Copper | 7                 |
| Conductor Count: |           |                    | 7                 |

| Insulation               |                        |
|--------------------------|------------------------|
| Material                 | Nominal Wall Thickness |
| PVC - Polyvinyl Chloride | 0.010 in               |

| Outer Shield Material |                    |              |                    |               |
|-----------------------|--------------------|--------------|--------------------|---------------|
| Type                  | Material           | Coverage [%] | Drainwire Material | Drainwire AWG |
| Tape                  | Alum / Poly        | 100%         | TC - Tinned Copper | 26            |
| Spiral Serve / Screen | Tinned Copper (TC) | 90%          |                    |               |

| Outer Jacket Material    |                  |                        |
|--------------------------|------------------|------------------------|
| Material                 | Nominal Diameter | Nominal Wall Thickness |
| PVC - Polyvinyl Chloride | 0.223 in         | 0.040 in               |

Electrical Characteristics

| Conductor DCR         |                          |
|-----------------------|--------------------------|
| Nominal Conductor DCR | Nominal Outer Shield DCR |
| 66 Ohm/1000ft         | 5.4 Ohm/1000ft           |

| Capacitance                             |  |
|-----------------------------------------|--|
| Nom. Capacitance Conductor to Conductor |  |
| 25 pF/ft                                |  |

| Inductance         |  |
|--------------------|--|
| Nominal Inductance |  |
| .220 µH/ft         |  |

| Voltage           |  |
|-------------------|--|
| UL Voltage Rating |  |
| 300 V             |  |

Temperature Range

|                 |       |
|-----------------|-------|
| UL Temp Rating: | 105°C |
|-----------------|-------|

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Operating Temp Range: | -10°C To 105°C (Static), 5°C To 105°C (Flexing) |
|-----------------------|-------------------------------------------------|

### Mechanical Characteristics

|                                       |                  |
|---------------------------------------|------------------|
| Flex Cycle Rating:                    | 6 Million Cycles |
| Bulk Cable Weight:                    | 31 lbs/1000ft    |
| Max. Pull Tension:                    | 14.8 lbs         |
| Min Bend Radius (Continuous Flexing): | 1.8 in           |
| Min Bend Radius/Minor Axis:           | 1.8 in           |

### Standards

|                          |                     |
|--------------------------|---------------------|
| NEC/(UL) Compliance:     | CM                  |
| CEC/C(UL) Compliance:    | CMG                 |
| UL AWM Style Compliance: | AWM 2661, AWM 10002 |
| CSA AWM Compliance:      | AWM I/II A/B        |

### Applicable Environmental and Other Programs

|                                    |                               |
|------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):     | Yes                           |
| EU Directive 2003/11/EC (BFR):     | Yes                           |
| EU Directive 2011/65/EU (ROHS II): | Yes                           |
| EU Directive 2012/19/EU (WEEE):    | Yes                           |
| EU Directive 2015/863/EU:          | Yes                           |
| EU Directive Compliance:           | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                        | Yes                           |

### Suitability

|                                    |     |
|------------------------------------|-----|
| Suitability - Sunlight Resistance: | Yes |
|------------------------------------|-----|

### Flammability, LSOH, Toxicity Testing

|                    |           |
|--------------------|-----------|
| CSA Flammability:  | FT4       |
| UL voltage rating: | 300 V RMS |

### Part Number

#### Variants

| Item #          | Color | Putup Type | UPC          |
|-----------------|-------|------------|--------------|
| 76007WS 008100  | Gray  | Reel       | 612825410430 |
| 76007WS 0081000 | Gray  | Reel       | 612825410447 |
| 76007WS 008500  | Gray  | Reel       | 612825410454 |

### History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.58 Revision Date: 04-28-2020 |
|----------------------|-------------------------------------------------|

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#### Как с нами связаться

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