

Part Number: 73804WS



MachFlex™ Moderate 600V Control, (4) 18 AWG (16x30) BC, PVC/PVC/PVC, TC Braid Shld, AWM, CE

[Request Sample](#)

Product Description

Three 18 AWG stranded (16x30) bare copper conductors plus ground wire, lubricated PVC insulation, PVC inner jacket, tinned copper braid shield (85% coverage), oil-resistant PVC outer jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

| Element | AWG | Stranding | Material | No. of Conductors |
|-----------|-----|-----------|------------------|-------------------|
| Conductor | 18 | 16x30 | BC - Bare Copper | 3 |
| Ground | 18 | 16x30 | BC - Bare Copper | 1 |

| | |
|------------------------|--------|
| Conductor Count: | 4 |
| Total Number of Pairs: | N/A |
| Conductor Size: | 18 AWG |

Insulation

| Element | Material | Nominal Diameter | Nominal Wall Thickness |
|-----------|--------------------------|------------------|------------------------|
| Conductor | PVC - Polyvinyl Chloride | 0.091 in | 0.022 in |
| Ground | PVC - Polyvinyl Chloride | | |

Color Chart

| Color |
|--------------------|
| Black and Numbered |

Inner Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | .286 in | .030 in |

Outer Shield Material

| Type | Material | Coverage [%] |
|-------|--------------------|--------------|
| Braid | TC - Tinned Copper | 85 % |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.384 in | 0.035 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 6.7 Ohm/1000ft | 2.26 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor |
|---|
| 44 pF/ft |

| | |
|------------|----------|
| Shielding: | Braid(s) |
|------------|----------|

Inductance

| Nominal Inductance |
|--------------------|
|--------------------|

.190 µH/ft

Voltage

UL Voltage Rating

600 V

Temperature Range

| | |
|-----------------------|--|
| UL Temp Rating: | 90°C |
| Operating Temp Range: | -40°C To 90°C (Static), -5°C To 90°C (Flexing) |

Mechanical Characteristics

| | |
|---------------------------------------|------------------|
| Oil Resistance: | Yes |
| Flex Cycle Rating: | 1 Million Cycles |
| Bulk Cable Weight: | 184 lbs/1000ft |
| Max Recommended Pulling Tension: | 59 lbs |
| Min Bend Radius (Continuous Flexing): | 3.1 in |
| Min Bend Radius/Minor Axis: | 3.1 in |

Standards

| | |
|------------------------|--------------------------------|
| UL AWM Style: | AWM 2587 |
| CSA AWM Specification: | AWM I/II A/B |
| Other Specification: | VDE 0472, Section 803 Oil Test |

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 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|-----------|
| CSA Flammability: | FT1 |
| UL voltage rating: | 600 V RMS |

Part Number

Variants

| Item # | Color |
|-----------------|-------|
| 73804WS 008100 | Gray |
| 73804WS 0081000 | Gray |

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