



Part Number: 76408TS

MachFlex™ Continuous 300V Data, (8 pr) 28 AWG (7x36) TC, PVC/PVC, Foil+TC Braid Shld, AWM, CE, CM

[Request Sample](#)

Product Description

Eight 28 AWG pairs stranded (7x36) tinned copper conductors, twisted pairs, lubricated semi-rigid PVC insulation, overall foil plus tinned copper braid shield (85% coverage), oil-resistant PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Pairs
Conductor	28	7x36	TC - Tinned Copper	8

Conductor Count:	16
Total Number of Pairs:	8
Conductor Size:	28 AWG

Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Conductor	PVC - Polyvinyl Chloride	0.035 in	0.010 in

Outer Shield Material

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum/Mylar	100 %	TC - Tinned Copper	26
Braid	TC - Tinned Copper	85 %		

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.331 in	0.040 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
67 Ohm/1000ft	2.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
19.7 pF/ft

Shielding:	Foil + Braid(s)
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Inductance

Nominal Inductance
.22 µH/ft

Impedance

Nominal Characteristic Impedance
97 Ohm

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:	58 lbs/1000ft
Max Recommended Pulling Tension:	31 lbs
Min Bend Radius (Continuous Flexing):	5.0 in
Min Bend Radius/Minor Axis:	3.3 in

Standards

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CMG
UL AWM Style:	AWM 2661, AWM 10002
CSA AWM Specification:	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
CA Prop 65 (CJ for Wire & Cable):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LS0H, Toxicity Testing

CSA Flammability:	FT4
UL voltage rating:	300 V RMS

Part Number

Variants

Item #	Color
76408TS 008100	Gray
76408TS 0081000	Gray

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