Belden

Product: BRB4G07U

MachFlex™ Robotic Lite 20940 Cable, 600 V, 4 G 1.0 mm² Str BC, PP Ins, Unshielded, PUR Jkt

Product Description

MachFlex™ Robotic Lite 20940 Cable, 600 V, 4 G 1.0 mm² Str BC, PP Ins, Unshielded, PUR Jkt, UL/cUL AWM 20940 certified

Technical Specifications

Product Overview

Suitable Applications:	Power supply cabling for industrial robots and moving machinery: auxiliary and tool power, brakes, and small drives in dress packs of articulated-arm, SCARA and gantry robots, in cable carriers (drag chains), and on other continuously moving machine parts. Suited to repeated torsion up to ±180° per metre of free cable length and to continuous flexing in cable carriers. Typical uses: automotive and general manufacturing, machine tools, and fixed handling and storage systems.

Construction Details

Conductor

Size	Stranding	Material	Notes
1 mm²	Stranded	BC - Bare Copper	Extra fine stranded

Insulation

Material	Color Code
PP - Polypropylene	Black cores with white numbers, one green-yellow core.

Outer Jacket

Material
PUR - Polyurethane

Outer Jacket1 Table Notes:	Jacket Color : Black ; Put-up length: 100 m or 500 m
Overall Cable Diameter (Nominal):	6.9 mm (0.27 in)

Electrical Characteristics

Electricals

Max. Conductor DCR
19.5 Ohm/km at 20°C

Voltage

UL Voltage Rating
600 V

Voltage Rating Table Notes:	2 kV ac

Mechanical Characteristics

Temperature

Installation	Continuous Flexing
-40°C to +80°C	-20°C to +80°C

Trailing/Flexing Properties

Motion	Number of Cycles	Torsion Angle
Torsion/Twisting	10,000,000	180 °

Table Notes:	Cable uniquely designed for both torsion and drag chain motions. Torsion Test +/-180º/m: Min. 10 million cycles ; Drag chain : Min. 5 million cycles (Traversing distance: 5m; Speed: 3m/s; Bending radius: 10 x D)

Bend Radius

Installation Min.
5xOD

Bend Radius Table Notes:	Flexing Min. 10xOD
Bulk Cable Weight:	74 kg/km (50 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Non-Halogenated, UV Resistance, Oil Resistance
Flammability / Reaction to Fire:	Horizontal flame test
CEC / C(UL) Compliance:	CSA C22.2 No.210, C22.2 No.210
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)

Product Notes

Notes:	UL AWM Style 20940

History

Update and Revision:	Revision Number: 0.2 Revision Date: 10-22-2026

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