

## ABB IEC 60 309 International Pin and Sleeve

### Plugs, Connectors, Receptacles and Inlets

#### Performance — Electrical

<b>Dielectric Voltage Withstand</b>	3000 volts for 1 minute (devices > 300V) 2000 volts for 1 minute (devices ≤ 300V)
<b>Maximum Working Voltage</b>	600VAC/250VDC (minimum creepage and clearances per UL 840)
<b>Current Interrupting/ Load Breaking</b>	Tested to 150% of full rated current for circuit interrupting
<b>Temperature Rise</b>	Maximum 30° C rise at full rated current after 50 cycles overload at 150% rated load at .75 pF
<b>Endurance with Load Per IEC 60 309-1 Clause 21</b>	20 Amp: 5000 cycles — Rated current, voltage 30 Amp: 1000 cycles — Rated current, voltage 60 Amp: 1000 cycles — Rated current, voltage 100 Amp: 250 cycles — Rated current, voltage

#### Performance — Mechanical

<b>Cold (-25° C) Impact Resistance</b>	Per UL 1682 Section 34 and IEC 60 309-1 Clause 24
<b>Cable O.D. Accommodation</b>	Round portable service cord from .57" O.D. through 1.79" O.D.
<b>Terminal Identification</b>	In accordance with UL 1682 standards and IEC 60 309-1: as L1-L2-L3-N-G
<b>Cable Pull-Out Force</b>	Per UL 1682 Section 33 and IEC 60 309-1 Clause 23
<b>Product Identification</b>	Product trademark(s) and UL approved product label




#### Performance — Environmental

<b>Moisture Resistance</b>	Per IEC 60 309-1; Watertight flap/screw cover on IP67 devices
<b>Flammability</b>	All components V2 for internal parts & V0 for external parts on 20A & 30A devices per UL94 or CSA 22.2 No. 0.6; V0 on 60A & 100A
<b>Operating Temperatures</b>	Maximum continuous 90° C/194° F; minimum -25° C/-13° F
<b>Chemical Resistance</b>	Resists standard industrial hydrocarbons, acids, bases and solvents
<b>Corrosion Resistance</b>	All metallic components stainless steel or brass sleeve pressure spring of stainless steel
<b>UV Resistance</b>	In accordance with UL® 746C

#### Materials

<b>Housing</b>	Valox®
<b>Contact Carriers</b>	Valox®
<b>Cable Gland Nut</b>	Valox®
<b>Cable Bushing</b>	Chloroprene, onion-ring type
<b>O-Ring, Seals and Gaskets</b>	Solid chloroprene
<b>Pins &amp; Sleeves</b>	Brass
<b>Sleeve Force Ring</b>	Stainless steel
<b>Terminal Screws</b>	Zinc-plated steel
<b>Flap/Screw Cover Springs</b>	Stainless steel
<b>Mounting Flanges</b>	Valox®

#### Approvals and Compliances

1682, 1686 E109667 E109550 E163435	
60 309-1, -2, -4 LVD 2006/95/EC EMC 2004/108/EC	
C22.2 No. 182.1 LR700925	

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