

Materials:

insulator	POM, black
contact 1st pole	C5191, nickel, 2 µm min.
contact 2nd pole	C5191, nickel, 2 µm min.
contact 3rd pole	C5191, nickel, 2 µm min.
contact 4th pole	C5191, nickel, 2 µm min.
jack head	brass, C3604, nickel, 2 µm min.
outer sleeve	brass, C2700, nickel, 2 µm min.

Electrical:

dielectric strength	200 Vac, 1 minute
insulation resistance	100 Vdc/50 MΩ
contact resistance	100 mΩ or less between plug and jack

Mechanical:

insertion force	0.4~4 kgf when mating with a standard jack
withdrawal force	0.4~4 kgf when mating with a standard jack
durability	mated with standard jack for 5000 times and meets requirements below
1. insertion force	0.3 ~ 4 kgf
2. withdrawal force	0.3 ~ 4 kgf
3. contact resistance	100 mΩ or less between plug and jack

Environmental test:

damp test

test conditions	40 °C, relative humidity 90-100%, 96 hours then cool to ambient, 2 hours at ambient conditions
requirements	dielectric strength: 200 Vac at 1 minute; insulation resistance: 100 Vdc / 50 MΩ min.

dry test

test conditions	70 °C, relative humidity 70-85%, 96 hours then cool to ambient, 2 hours at ambient conditions
requirements	no deformation; contact resistance: 100 mΩ max

salt spray test

test conditions	5% NaCl salt mist, 35 ±2 °C, relative humidity 90-95%, 24 hours; parts washed after testing
requirements	electrical and mechanical specifications above are met; contact resistance: 100 mΩ max.

Operating range:

temperature	-25°C to + 70°C
humidity	85% or less

Revision notes:

Rev	Date	Description
A	September 26, 2011	initial release

Specification Approval

Spec sign-off verifies that you have reviewed the entire specification, tested a sample of the product, and confirm that it meets your requirements. This specification reflects the part as it will be ordered. Orders will not be processed until the specification pages have been initialed and the approval page has been signed. This specification is confidential and is not to be transmitted without prior approval from Tensility.

Signature _____

Name _____

Company _____

Title _____

Date _____

Branch _____