



SlimStack Armor™ 0.35mm-pitch connectors deliver up to 3A of extra power through protective metal covers, and provide superior mating guidance and electrical contact assurance for mobile device and other tight-packaging applications

Features and Benefits

Ultra low profile, short length and narrow width	Offers maximum space savings
“Armor” metal covers on housing corners	Prevent damage to the housing even when misaligned during mating
Integral metal power nails	Provide 3.0A of power with superior contact assurance
Dual contact design	Provides secure electrical and mechanical reliability even after repeat cycling
Wide alignment area housing lead-in	Facilitates mating for more efficient operator assembly
Housing canopy cover	Provides an anti-zippering barrier that prevents contact pullout from angled unmating
Contact design with audible and tactile mating features	Provides operators with maximum mating assurance
Wide vacuum pick-and-place area	Accommodates automatic board placement even with narrow width

Markets and Applications

Mobile Devices

- Smart Phones
- Tablet PCs
- Portable Audio
- Portable Navigation Equipment

Medical

- Patient Monitoring
- Therapeutic and Surgical



Smart Phone



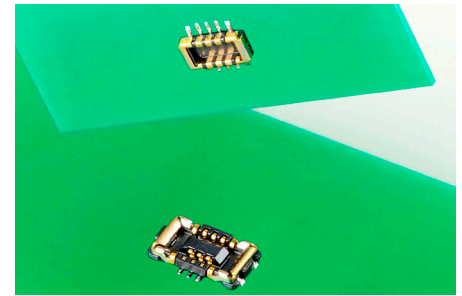
Medical Equipment



Portable Audio Player

**SlimStack Armor™
Board-to-Board
SMT Connectors,
0.35mm Pitch,
0.60mm Height,
2.00mm Width**

505070 Plug
505066 Receptacle



SlimStack Armor connectors
(505070 plug, top; 505066
receptacle, bottom)



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Specifications

REFERENCE INFORMATION

Packaging: Embossed tape
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

ELECTRICAL

Voltage (max.): 50V
Current (max.): 0.3A
Contact Resistance:
80 milliohms max.
Dielectric Withstanding Voltage:
250V AC (rms)
Insulation Resistance:
100 Megohm min

MECHANICAL

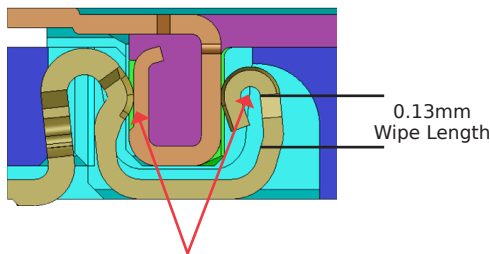
Durability (min.): 30 cycles

PHYSICAL

Housing: LCP, black
Contact: Copper Alloy
Plating:
Contact Area — Gold
Solder Tail Area — Gold
Underplating — Nickel
Operating Temperature:
-40 to +85°C

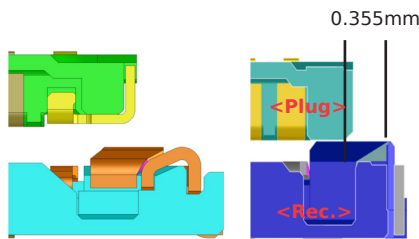
Additional Product Features

**Dual Contact Design for
Secure Reliability**



A dual-contact design in the SlimStack Armor™ family provides secure electrical and mechanical contact and prevents open contacts. The 0.13mm wipe length helps to remove dust and debris and provide further contact assurance.

**Wide Alignment Area for
Easy Mating**



A wide chamfered alignment area has been designed into the SlimStack Armor™ series to enable operators to more easily guide the connectors together.

**Robust Power Nail
With "Armor" feature**

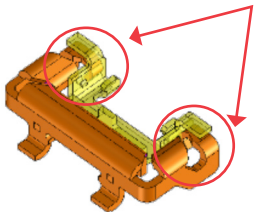


Receptacle (505066)

Plug (505070)

A robust metal cover nail on the SlimStack Armor™ series provides housing protection during mating and up to 3 amps of power.

Two contact points



Power nails on the SlimStack Armor™ series feature a reliable contact interface with flexible arm spring and two points of contact that do not lose contact even when twisted.

Ordering Information

Circuit Size	Plug Order No.	Receptacle Order No.
6	505070-0610	505066-0610
12	505070-1210	505066-1210
16	505070-1610	505066-1610
30	505070-3010	505066-3010
40	505070-4010	505066-4010
48	505070-4810	505066-4810

www.molex.com/link/slimstack035.html