Berk-Tek RJ Shielded Plug Kit

Berk-Tek
a **LEVITON** company

Berk-Tek LANmark Industrial Connectors enable the expansion and integration of Ethernet into machines, sensors, PLC/DCS networks and various industrial environments. With over 50 years of cable manufacturing experience, Berk-Tek offers best-in-class Industrial Ethernet solutions that perform reliably in industrial harsh conditions, leading to maximum production uptime and efficiency.

DESCRIPTION

These four field-installable RJ-45 shielded plug kits are optimized for LANmark shielded industrial cables based on diameter, wire size and application performance.

- **C542-RJS-PKB** is optimized for the following Industrial Cables: LANmark-C542 (Cat 5e), -B752 (Cat 6), -A750 and -B751 (Cat 6A)

    o 0.217 - 0.315 inch cable diameter
    o 0.042 - 0.048 inch wire size
    o Polycarbonate wire aligner
    o 10 Gb/s Ethernet Application Performance

- **B537-RJS-PKB** is optimized for the following Cat 5e Industrial Cables: LANmark-B537, -C541, and -B587

    o 0.270 - 0.295 inch cable diameter
    o 0.042 - 0.048 inch wire size
    o No wire aligner
    o 100 Mb/s Ethernet Application Performance

- **C637-RJS-PKB** is optimized for the following Cat 6A Industrial Cable: LANmark-C637:

    o 0.270 - 0.295 inch cable diameter
    o 0.033 - 0.038 inch wire size
    o Polycarbonate wire aligner
    o 10 Gb/s Ethernet Application Performance

- **C545-RJS-PKB** is optimized for the following Cat 6A Industrial Cable: LANmark-C545:

    o 0.295 - 0.340 inch cable diameter
    o 0.042 - 0.048 inch wire size
    o Polycarbonate wire aligner
    o 10 Gb/s Ethernet Application Performance

STANDARDS

International EIA-364;
EU Directive 2011/65/EU (RoHS);
EU Directive 2014/35/EU (Low Voltage);
IEC 60603-7

National EIA/TIA-568;
TIA 1096: EIA/TIA-570; UL 94 V0

CHARACTERISTICS

Construction characteristics

Connector type	RJ 45
Connector Orientation	Straight
Plug Body	Polycarbonate
Load Bar	Polycarbonate
Contacts	Copper Alloy with Gold Plating
Boot/Strain Relief	Polycarbonate
Connector Shielding	Copper Alloy with Nickel Plating
Pin Count	8.0
Termination Type	IDC

Electrical characteristics

Rated Voltage	150 Volts (AC)
Rated current	1.5 A
Dielectric Withstand	1500 Volts AC peak or Volts DC

Mechanical characteristics

Connector Mating Cycles	750.0

Usage characteristics

IP Rating	IP20 (IEC 60529)
Recommended operating temperature range	-40 .. 85 °C

PRODUCT LIST

Part Number	Description	Application Performance	Wire Aligner	Plug Wire Sizes [in]
🏭 81000747	LANmark-B537-RJS-PKB: RJ45 Shielded Plug Kit, IP20 Rated	100 Mb/s Ethernet	None	0.042 .. 0.048
🏭 81000744	LANmark-C542-RJS-PKB: RJ45 Shielded Plug Kit, IP20 Rated	10 Gb/s Ethernet	None	0.042 .. 0.048
🏭 81000746	LANmark-C545-RJS-PKB: RJ45 Shielded Plug Kit, IP20 Rated	10 Gb/s Ethernet	Polycarbonate	0.042 .. 0.048
🏭 81000745	LANmark-C637-RJS-PKB: RJ45 Shielded Plug Kit, IP20 Rated	10 Gb/s Ethernet	Polycarbonate	0.033 .. 0.038
				📞 = Make to order, 🏭 = In stock