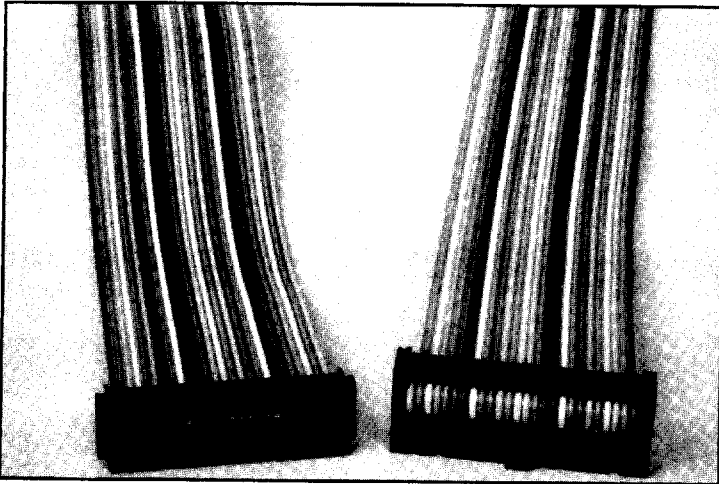


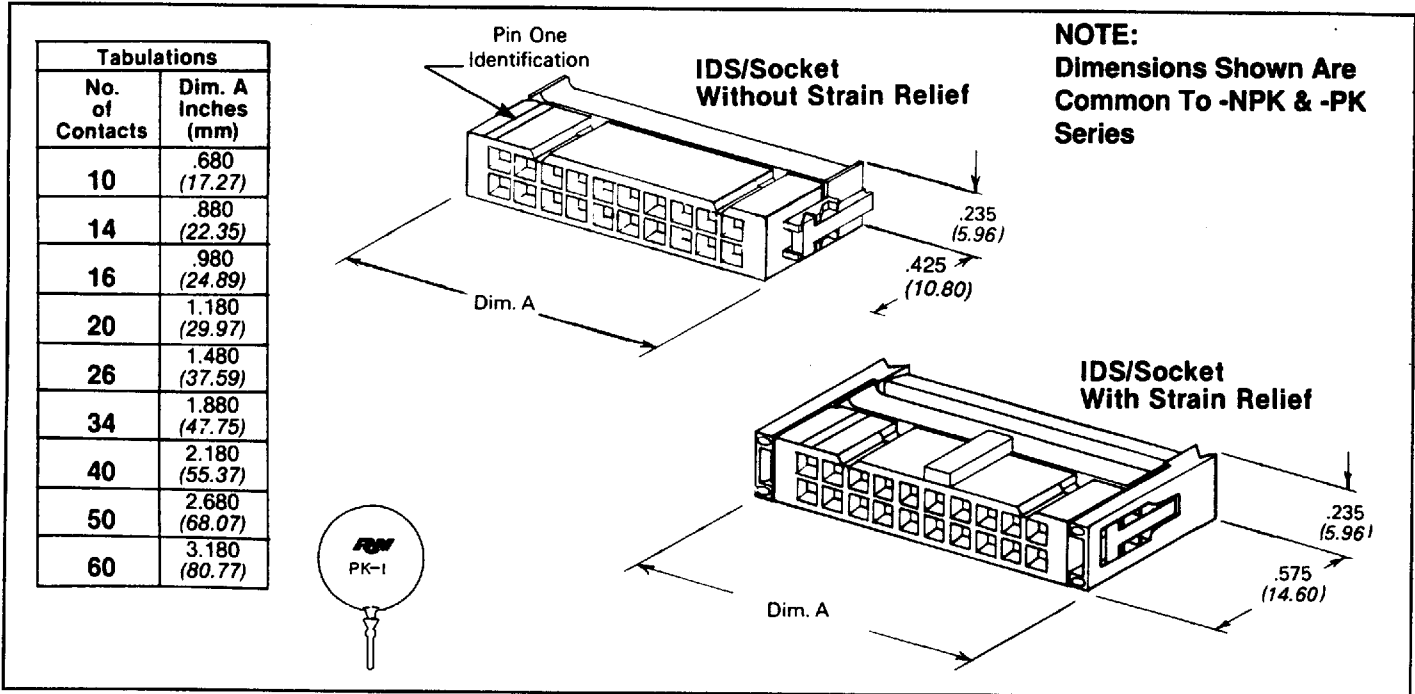
Sockets .100 X.100 (2.54 x 2.54) Grid

IDS-NPK/IDS-PK Series





- IDS-NPK sockets offer total compatibility to MIL-C-83503 and BT-224
- IDS-PK sockets incorporate center polarization to meet DIN-41651
- For quick disconnect with all .025" post headers
- Optional strain relief and PK-1 polarization keys

IDC CABLE-TO-BOARD

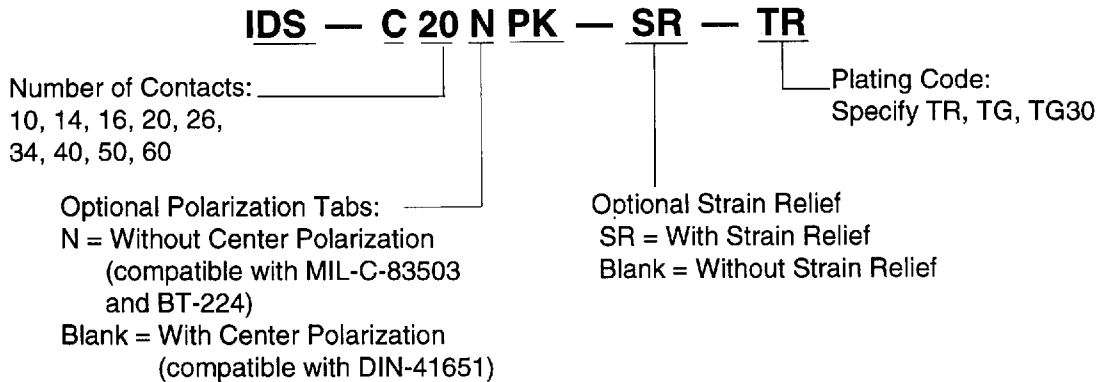


Materials:
Body, Lid and Strain Relief: Glass-filled, Black polyester
Contacts: Phosphor Bronze or Beryllium Copper

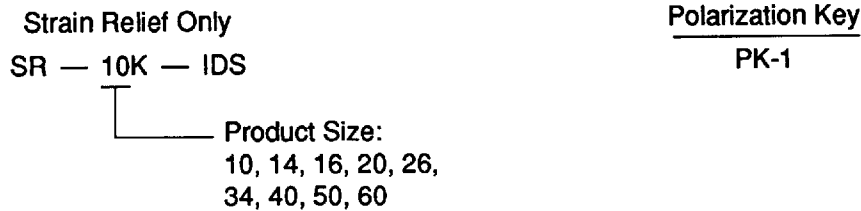
Performance Characteristics:
Temperature Range: Phosphor Bronze -55°C to +105°C
 Beryllium Copper -55°C to +125°C
Flammability: UL 94V-0

Agency Approvals:
 #E73746
 #46898

How to Order IDS-NPK or IDS-PK Series



How to Order Accessories



Materials:

Body, Lid and Strain Relief: Glass-filled, black polyester

Contacts: Phosphor Bronze
Contact factory for Beryllium
Copper

Performance

Characteristics:

Temperature Range: Phosphor Bronze -55°C to +105°C
Beryllium Copper -55°C to +125°C

Flammability: UL 94V-0

Plating Description

Suffix: TR = 10 μ inch (.254 μ m) minimum
ROBEX® on contact area.
100 μ inch (2.54 μ m) minimum
Tin on terminal area.

TG = 10 μ inch (.254 μ m) minimum
Gold on contact area.
100 μ inch (2.54 μ m) minimum
Tin on terminal area.

TG30 = 30 μ inch (.762 μ m) minimum
Gold on contact area.
100 μ inch (2.54 μ m) minimum
Tin on terminal area.

All options include an Underplate of 50 μ inch (1.27 μ m) minimum Nickel.

IDC
CABLE-TO-BOARD

IDC Product Specifications and Test Data

Electrical

Current Rating	1 Amp
Insulation Resistance	>5 X 10 ⁹ Ohms at 500 VDC
Withstanding Voltage	500 VRMS at Sea Level
Contact Resistance	20 milliohms Maximum

Environmental

Operating Temperature	
Phos Bronze Contacts	-55°C to + 105°C
Be Cu Contacts	-55°C to + 125°C
Corrosive Atmosphere	
Ammonium Polysulfate (4 Hours)	R _c = 9.3 milliohms
Nitric Acid (1 Hour)	R _c = 8.4 milliohms
Salt Spray	
MIL-STD-1344, Method 1001, Condition B	R _c - 11.7 milliohms
+ 35°C, 96 Hours	(no damage)
Humidity	
MIL-STD-1344, Method 1002, Type I, Condition B	R _c = 14.8 milliohms
96 Hours, 95% Relative Humidity, + 40°C	(no damage)
Thermal Shock	
MIL-STD-1344, Method 1003, Condition A	R _c - 11.7 milliohms
-55°C to + 85°C (5 Cycles)	(no damage)
Mechanical Shock	
MIL-STD-1344, Method 2004, Condition G	No Discontinuity
100 Gs, 6 milliSeconds Each Axis	
Vibration	
MIL-STD-1344, Method 2005, Condition 4	No Discontinuity
10-2000 Hz, 20 G Peak (12 Cycles)	
Temperature Life	
MIL-STD-1344, Method 1005, 1,000 Hours, Condition 4	R _c - 14.9 milliohms
+ 105°C	
Socket Durability	
500 Cycles	R _c = <12 milliohms

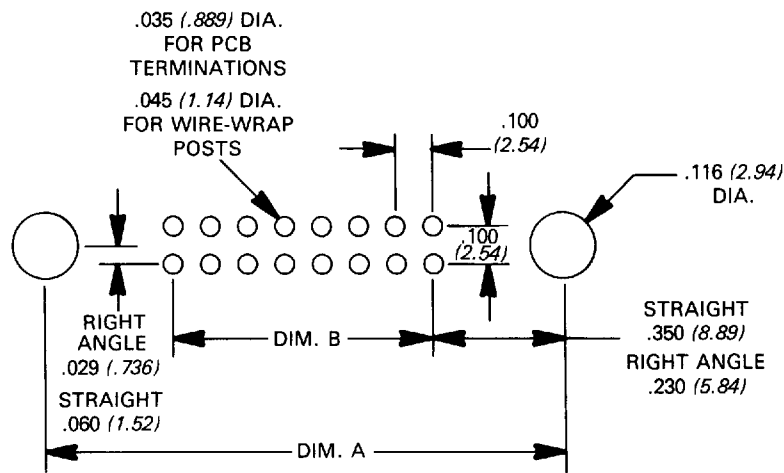
Note: For Complete test results on high reliability ROBEX® plating (TR and TR30), contact the factory.

IDC
CABLE-TO-BOARD

.025" Sq. Post Headers

The detail below describes the recommended mounting hole patterns and hole sizes for the following post leader series: IDH-PK, IDH-K, IDH-LP.

Note: The mounting hole information will apply to IDH-PK and IDH-K Series only.



Inches (mm)

No. of Contacts	Dim. A for Straight Mount	Dim. A for Right Angle Mount	Dim. B
10	1.100 (27.94)	.860 (21.84)	.400 (10.16)
14	1.300 (33.02)	1.060 (26.92)	.600 (15.24)
16	1.400 (35.56)	1.160 (29.46)	.700 (17.78)
20	1.600 (40.64)	1.360 (34.54)	.900 (22.86)
26	1.900 (48.26)	1.660 (42.16)	1.200 (30.48)
34	2.300 (58.42)	2.060 (52.32)	1.600 (40.64)
40	2.600 (66.04)	2.360 (59.94)	1.900 (48.26)
50	3.100 (78.74)	2.860 (72.64)	2.400 (60.96)
60	3.600 (91.44)	3.360 (85.34)	2.900 (73.66)