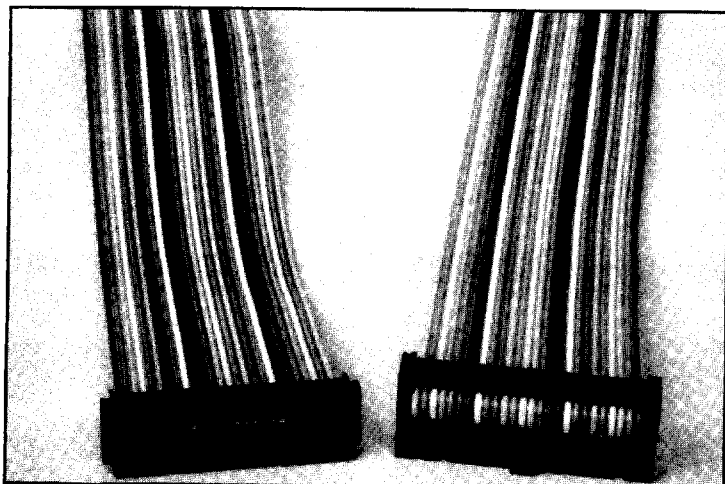


Sockets .100 X.100 (2.54 x 2.54) Grid

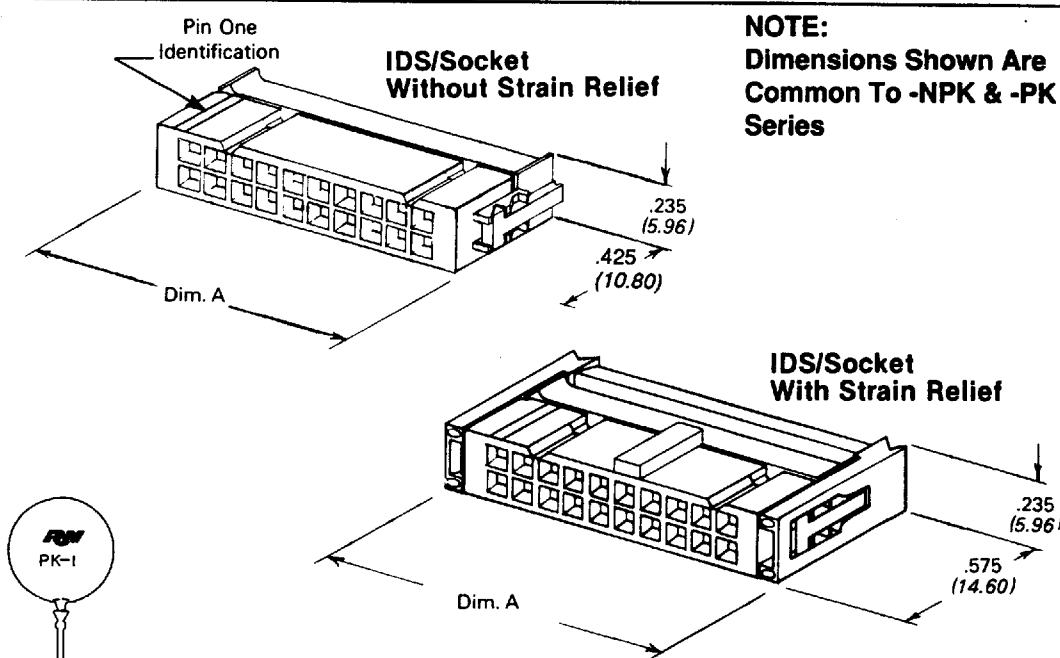
IDS-NPK/IDS-PK Series



- 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

Tabulations	
No. of Contacts	Dim. A Inches (mm)
10	.680 (17.27)
14	.880 (22.35)
16	.980 (24.89)
20	1.180 (29.97)
26	1.480 (37.59)
34	1.880 (47.75)
40	2.180 (55.37)
50	2.680 (68.07)
60	3.180 (80.77)



NOTE:
Dimensions Shown Are
Common To -NPK & -PK
Series

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

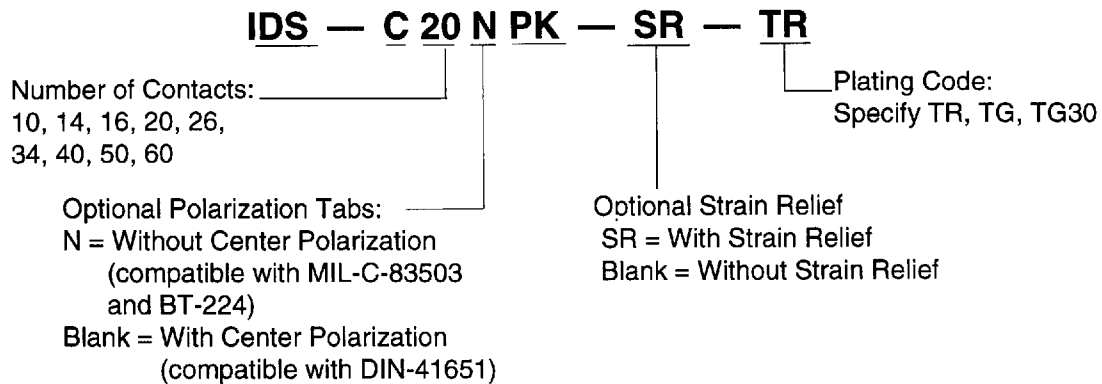
Flammability: UL 94V-0

Agency Approvals:

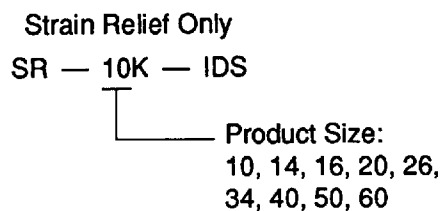
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How to Order IDS-NPK or IDS-PK Series



How to Order Accessories



Polarization Key
PK-1

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 µinch (.254 µm) minimum ROEX® on contact area.
100 µinch (2.54 µm) minimum Tin on terminal area.

TG = 10 µinch (.254 µm) minimum Gold on contact area.
100 µinch (2.54 µm) minimum Tin on terminal area.

TG30 = 30 µinch (.762 µm) minimum Gold on contact area.
100 µinch (2.54 µm) minimum Tin on terminal area.

All options include an Underplate of 50 µinch (1.27 µm) minimum Nickel.

IDC Product Specifications and Test Data

Electrical

Current Rating	1 Amp
Insulation Resistance	$>5 \times 10^9$ 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

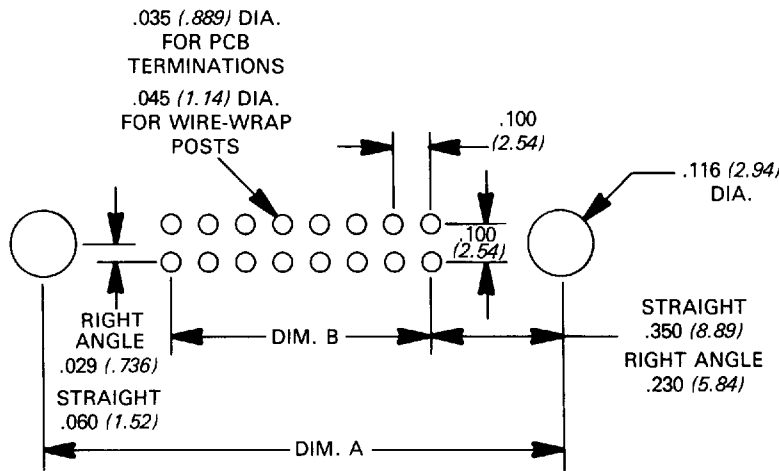
500 Cycles	$R_c = <12$ milliohms
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Note: For Complete test results on high reliability ROBEX® plating (TR and TR30), contact the factory.

.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)