

DESCRIPTION/APPLICATION

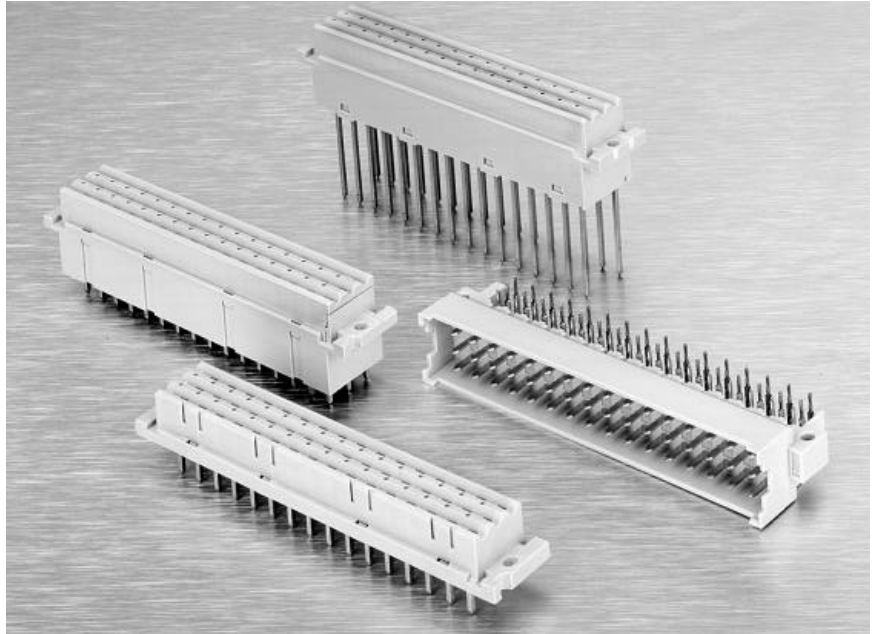
These heavy duty connectors are designed for the transmission of high currents and voltages in industrial environments. With their standard geometries, they fit into 19" subracks. Due to the robust design, a high degree of electrical and mechanical security is provided.

Using maximum dielectric spacing as well as optimum-sized contacts, these connectors are well suited for applications where downtime is extremely prohibitive in cost.

DESIGN ADVANTAGES

- Performance levels as per DIN 41612 part 5:
 - 1= 500 mating cycles
 - 2= 400 mating cycles
 - 3= 50 mating cycles
- Protected front entry of female insulator prevents stubbing of contacts.
- Preloaded female contact geometry provides for high normal forces with low insertion forces for higher reliability.
- Rugged design results in mechanical and electrical integrity, even under severe conditions.

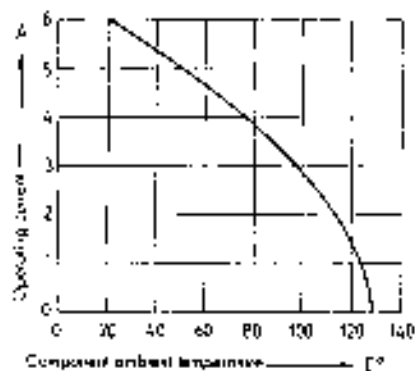
TYPE F POWER DIN CONNECTORS



CONNECTOR INDEX

F Male, without Coding Device	132
F Female, without Coding Device	133
F Male, with Coding Device	134
F Female, with Coding Device	135

DERATING CURVE



TYPE F MALE CONNECTOR WITHOUT CODING DEVICE

PHYSICAL PROPERTIES

HOUSING MATERIAL: Polyamide (PA)

COLOR: Beige

FLAMMABILITY: UL94V-1

INSERTION AND WITHDRAWAL FORCE: 75 N max. for 48 contacts; 50 N max. for 32 contacts

ELECTRICAL PROPERTIES

MAX. OPERATING CURRENT: 6 A (according to derating curve)

TEST VOLTAGE: 50 Hz; 1 min

CONTACT TO MASS: 2500 V

CONTACT TO CONTACT: 1550 V

CREEPING CURRENT STRENGTH: CTI600/CTI400M per DIN IEC 112

ENVIRONMENTAL PROPERTIES

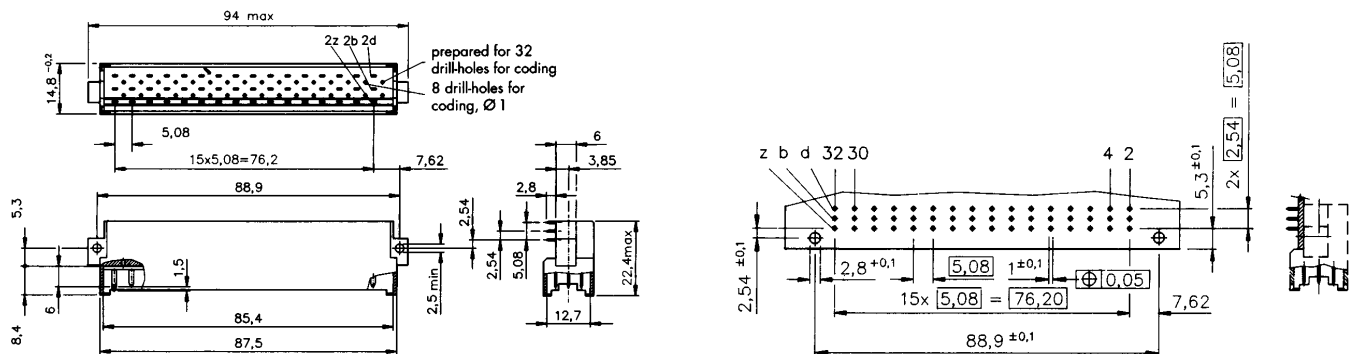
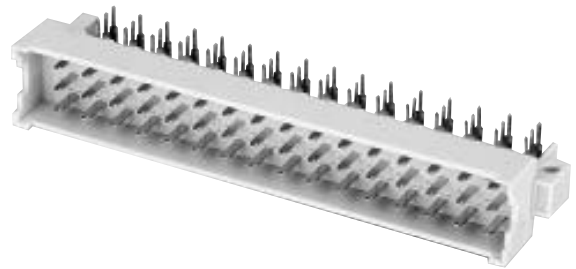
OPERATING TEMPERATURE RANGE: -55° C to 125° C

AIRSPACE: ≥ 1,6mm

LEAKAGE PATH: ≥ 3mm

CONTACT RESISTANCE: ≥15 mΩ

INSULATION RESISTANCE: ≥10¹² Ω



Ordering Information

# OF CONTACTS	PERFORMANCE LEVEL	SOLDER PIN 90° W/O EXTENDED PIN	SOLDER PIN 90° EXT. PIN POS. Z32	DESCRIPTION
48-Pin	1	FM48 W1	FM48 W1VZ32	3 Rows (marked z, b, d)
	2	FM48 W2	FM48 W2VZ32	
	3	FM48 W3	FM48 W3VZ32	
32-Pin	1	FM32 ZBW1	FM32 ZBW1Z32	2 Rows, 1 Blank (marked z, b) Distance between z & b is 2.54 mm
	2	FM32 ZBW2	FM32 ZBW2Z32	
	3	FM32 ZBW3	FM32 ZBW3Z32	
32-Pin	1	FM32 ZDW1	FM32 ZBW1Z32	2 Rows, 1 Blank (marked z, d)
	2	FM32 ZDW2	FM32 ZBW2Z32	
	3	FM32 ZDW3	FM32 ZBW3Z32	
32-Pin	1	FM32 ZB-DW1	FM32 ZB-DW1Z32	2 Rows, b row on top routed to d row on bottom Distance between z & b/d is 5.08 mm
	2	FM32 ZB-DW2	FM32 ZB-DW2Z32	
	3	FM32 ZB-DW3	FM32 ZB-DW3Z32	