

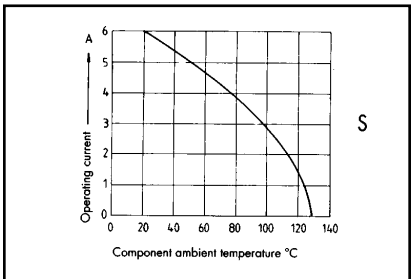
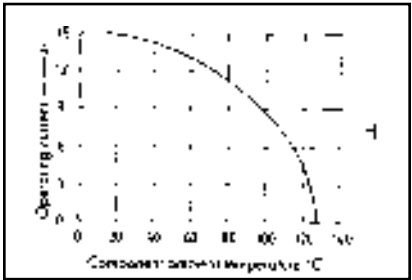
DESCRIPTION/APPLICATION

The Buchanan® Type F24+H7 (Series M) mixed connectors are created with seven high current contacts that correspond to Type H and 24 signal contacts that correspond with Type F. The connectors comply with technical requirements and mounting specifications of DIN 41612.

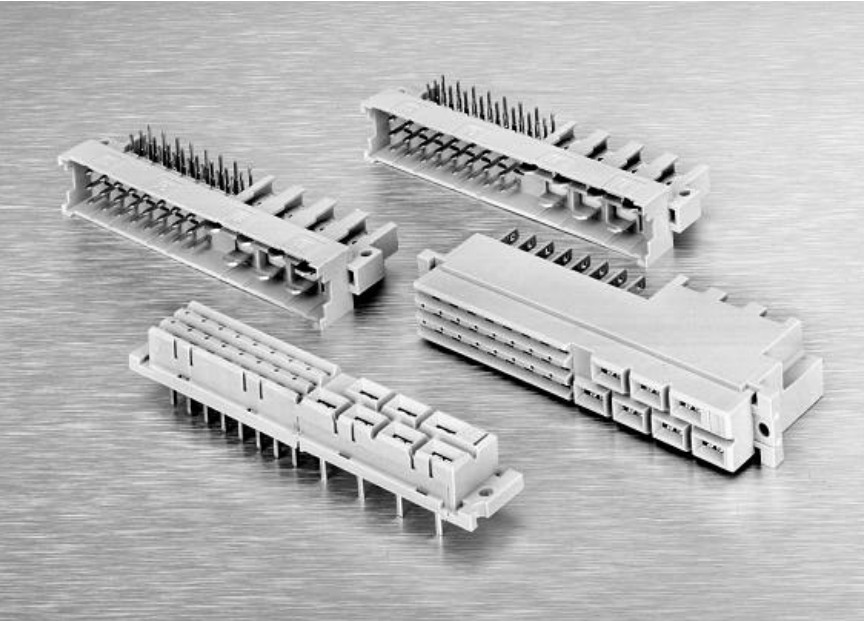
DESIGN ADVANTAGES

- Slimline versions of F24+H7 female connectors developed especially for use in bus systems.
- Male and slimline versions of female connectors are designed with an integrated coding device to guard against misconnection.

DERATING CURVES



TYPE F24+H7 (SERIES M) MIXED CONNECTORS



CONNECTOR INDEX	
F24+H7 Male, without Coding Device	137
F24+H7 Male, with Coding Device	138
F24+H7 Female, Polycarbonate	139
F24+H7 Female, PBT	140



SERIES F24+H7 (SERIES M) FEMALE CONNECTORS PC MATERIAL

PHYSICAL PROPERTIES

HOUSING MATERIAL: PC
 COLOR: Beige
 FLAMMABILITY RATING: UL94V-0
 INSULATING RESISTANCE: $\geq 10^{12} \Omega$ (Type F)
 INSERTION/WITHDRAWAL FORCE: 80N Max.

ELECTRICAL PROPERTIES

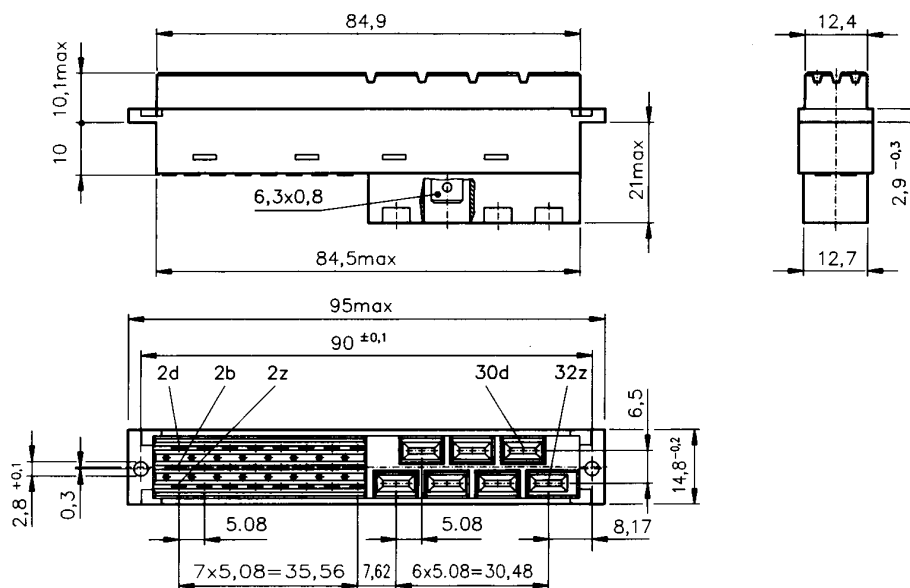
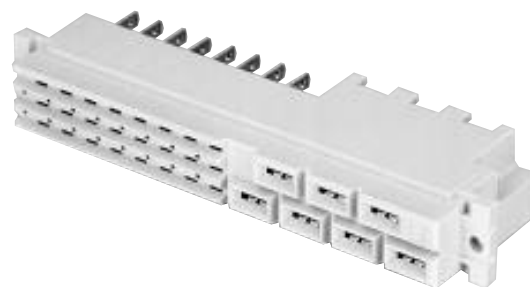
MAXIMUM CURRENT: Type F: 6A
 Type H: 15A
 (according to derating curve)
 OPERATING VOLTAGE: Type F: 125V
 Type H: 500V

TEST VOLTAGE V_{eff} :

Type F: 1550V contact to contact
 Type H: 3100V contact to contact
 Type F: 2500V contact to mass
 Type H: 3100V contact to mass

ENVIRONMENTAL PROPERTIES

OPERATING TEMPERATURE RANGE: -55°C to 125°C
 SOILING DEGREE PER VDE 0110: 3
 AIRSPACE: Type F: $\geq 1,6 \text{mm}$; Type H: $\geq 4,5 \text{mm}$
 LEAKAGE PATH: Type F: $\geq 3 \text{mm}$; Type H: $\geq 8 \text{mm}$
 CONTACT RESISTANCE: Type F: $\leq 15 \text{m}\Omega$; Type H: $\leq 8 \text{m}\Omega$



Ordering Information

# OF CONTACTS (ROWS)	PERFORMANCE LEVEL	WIREWRAP (22 X 1 X 1MM)	SQUARE PIN (L X 1 X 1MM)	SOLDER FORK (6 X 1 X 1MM)	SOLDER PIN VERTICAL (4 X 1 X 1MM)
24 +7-Pin (z + b + d)	1	MF24 WW-7FA1PC	MF24 SP-7FA1PC	MF24 LG-7FA1PC	MF24 T1-7FA1PC
	2	MF24 WW-7FA2PC	MF24 SP-7FA2PC	MF24 LG-7FA2PC	MF24 T1-7FA2PC
	3	MF24 WW-7FA3PC	MF24 SP-7FA3PC	MF24 LG-7FA3PC	MF24 T1-7FA3PC
16 +7-Pin (z + b)	1	MF16 ZBWW-7FA1PC	MF16 Z-BSP-7FA1PC	MF16 ZBLG-7FA1PC	MF16 ZBT1-7FA1PC
	2	MF16 ZBWW-7FA2PC	MF16 Z-BSP-7FA2PC	MF16 ZBLG-7FA2PC	MF16 ZBT1-7FA2PC
	3	MF16 ZBWW-7FA3PC	MF16 Z-BSP-7FA3PC	MF16 ZBLG-7FA3PC	MF16 ZBT1-7FA3PC
16 +7-Pin (z + d)	1	MF16 ZDWW-7FA1PC	MF16 Z-DSP-7FA1PC	MF16 ZDLG-7FA1PC	MF16 ZDT1-7FA1PC
	2	MF16 ZDWW-7FA2PC	MF16 Z-DSP-7FA2PC	MF16 ZDLG-7FA2PC	MF16 ZDT1-7FA2PC
	3	MF16 ZDWW-7FA3PC	MF16 Z-DSP-7FA3PC	MF16 ZDLG-7FA3PC	MF16 ZDT1-7FA3PC

SERIES F24+H7 (SERIES M) SLIMLINE PREPARED FOR CODING FEMALE CONNECTORS PBT MATERIAL

PHYSICAL PROPERTIES

HOUSING MATERIAL: PBT
COLOR: Beige
FLAMMABILITY RATING: UL94V-0
INSULATING RESISTANCE: $\geq 10^{12} \Omega$ (Type F)
INSERTION/WITHDRAWAL FORCE: 80N Max.

ELECTRICAL PROPERTIES

MAXIMUM CURRENT: Type F: 6A
Type H: 15A

(according to derating curve)

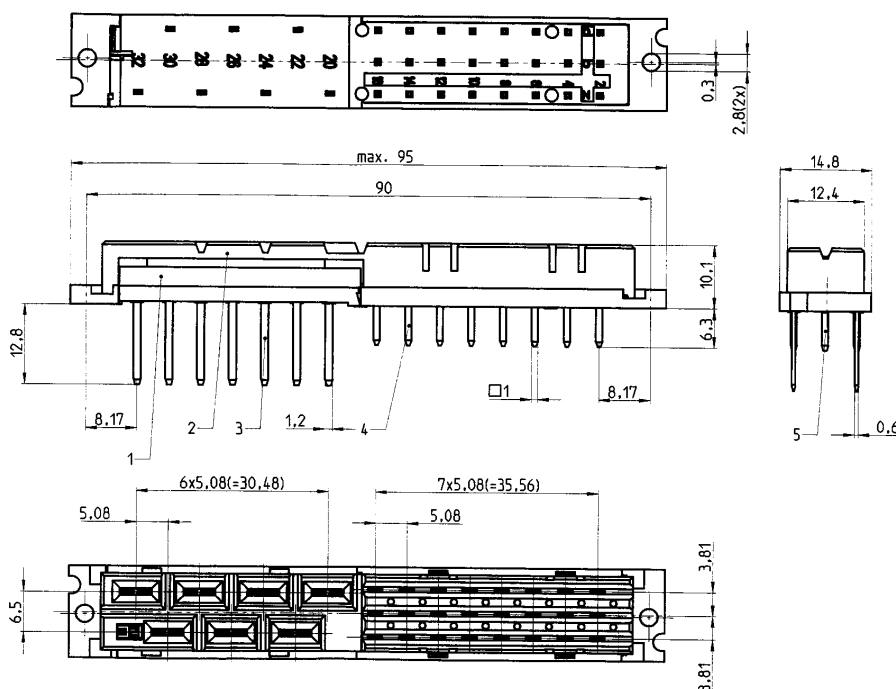
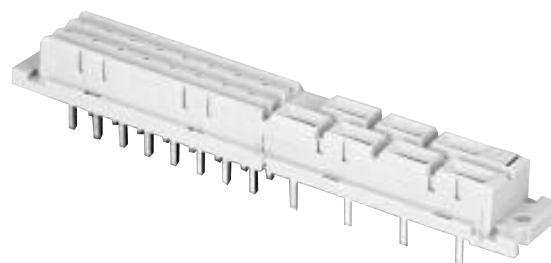
OPERATING VOLTAGE: Type F: 125V
Type H: 500V

TEST VOLTAGE V_{eff} :

Type F: 1550V contact to contact
Type H: 3100V contact to contact
Type F: 2500V contact to mass
Type H: 3100V contact to mass

ENVIRONMENTAL PROPERTIES

OPERATING TEMPERATURE RANGE: -55° C to 125° C
SOILING DEGREE PER VDE 0110: 3
AIRSPACE: Type F: $\geq 1,6\text{mm}$; Type H: $\geq 4,5\text{mm}$
LEAKAGE PATH: Type F: $\geq 3\text{mm}$; Type H: $\geq 8\text{mm}$
CONTACT RESISTANCE: Type F: $\leq 15\text{m}\Omega$; Type H: $\leq 8\text{m}\Omega$



Ordering Information

# OF CONTACTS (ROWS)	PERFORMANCE LEVEL	FASTON	SOLDER PIN ROUND (0.7MM DIAMETER)	SOLDER PIN SLIMLINE
24 +7-Pin (z + b + d)	1			
	2	MF24 FA-7FA2	MF24 R-7FA2	MF24 -7FT62
	3			
16 +7-Pin (z + b)	1			
	2	MF16 ZBFA-7FA2	MF16 ZBR-7FA2	MF16 ZB-7FT62
	3			
16 +7-Pin (z + d)	1			
	2	MF16 ZDFA-7FA2	MF16 ZDR-7FA2	MF16 ZD-7FT62
	3			

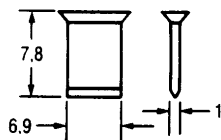
CODING KEY FOR SLIMLINE VERSION: Order number DFMCOD

ACCESSORIES

POLARIZATION OPTIONS

EXTERNAL PLASTIC POLARIZING KEY—

With loss of a contact
For types H11, H15, H15/HA, F24/H7
(Customer installed)



Polarizing Key HCOMK installed in Type H11 female connector — The removal of the corresponding male terminal is required.

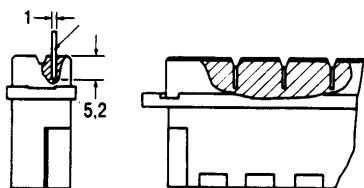
Catalog No. HCOMK

EXTERNAL POLARIZING KEY—

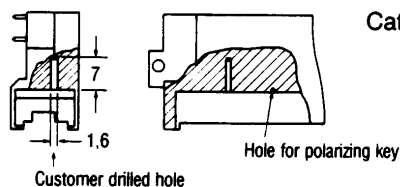
Without loss of a contact
For types H15, H15/HA, F24+H7 (No drilling required on Type F24+H7)
(Customer installed)



FEMALE CONNECTOR



MALE CONNECTOR

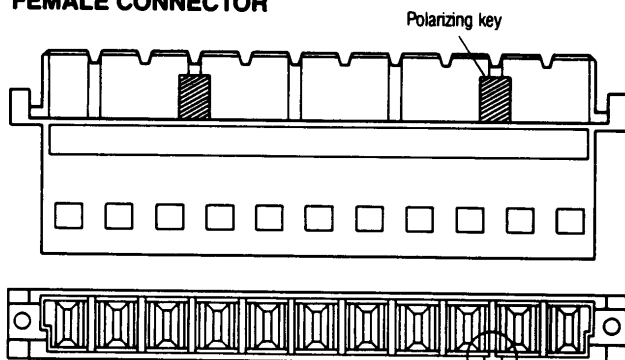


Catalog No. HCOOK

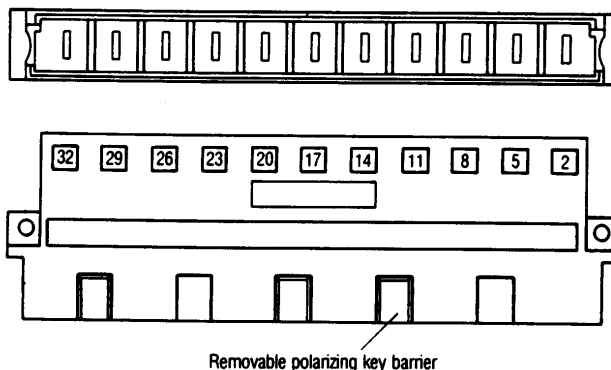
INTEGRAL POLARIZING KEY—

Without loss of a contact
For types H11, H15, H15/HA, F, and F24+H7 with Integral Polarization Capability
(Customer installed)

FEMALE CONNECTOR



MALE CONNECTOR



Removable polarizing key barrier