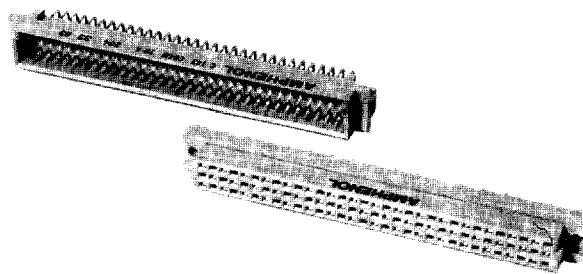


Bauform/Style C

Polzahl / Number of contacts

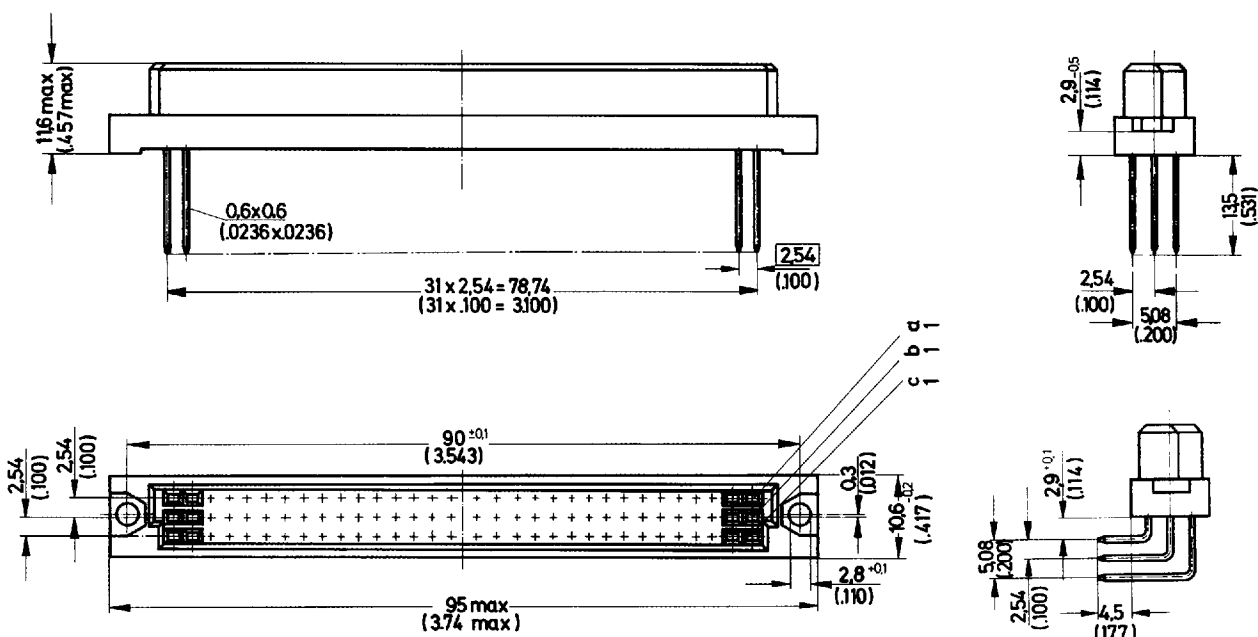
max. 96



Federleisten / Receptacle

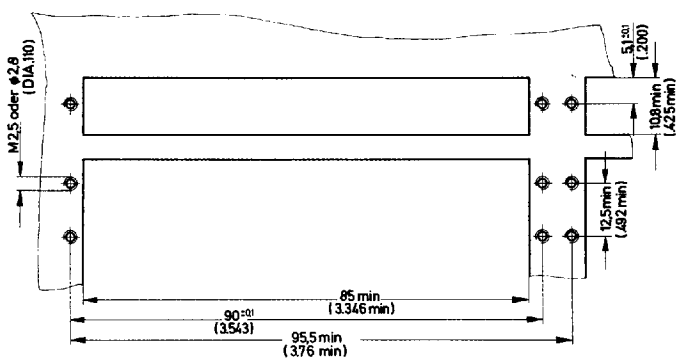
Polzahl / Number of contacts		96	64	32	
Bestückung / contact arrangement (row, position numbers)		Reihe a, b u. c voll bestückt row a, b and c fully loaded	Reihe a und c voll bestückt row a and c fully loaded	Reihe a und c geradzahlige Kontakte bestückt row a and c even numbered contacts loaded	
Bauform nach DIN / Style accord. to DIN		C96	C64	C32	
Anschlußart / Termination method		Anfor- derungs- stufe performance level	Bestell-Nummer / Part number chart		
Bezeichnung Description	Darstellung End view				
Wickelpfosten 0,6×0,6 straight wire wrap .0236×.0236		1 2 3	C143C096F 30A 001 C143012A 96S(21) C143012A 96S(20)	C143C064F 30A 001 C143012A 96S(24) C143012A 96S(23)	C143C032F 30A 001 C143012A 96S(27) C143012A 96S(26)
Tauchlöten gerade 0,6×0,6 straight dip .0236×.0236		1 2 3	C143C096F 10A 001 C143C096F 10A 002 C143C096F 10A 004	C143C064F 10A 001 C143C064F 10A 002 C143C064F 10A 004	C143C032F 10A 001 C143C032F 10A 002 C143C032F 10A 004
Tauchlöten gerade 0,6×0,6 straight dip .0236×.0236		1 2 3	C143C096F 11A 001 C143012A 96S(1) C143012A 96S	C143C064F 11A 001 C143012A 96S(4) C143012A 96S(3)	C143C032F 11A 001 C143012A 96S(7) C143012A 96S(6)
Tauchlöten abgew. 0,6×0,6 right angle dip .0236×.0236		1 2 3	C 143C096F 23A 001 C143012B 96S(1) C143012B 96S	C143C064F 23A 001 C143012B 96S(4) C143012B 96S(3)	C143 C032F 23A 001 C143 012B 96S (7) C143 012B 96S (6)
Wickelpfosten abgewinkelt 0,6×0,6 right angle wire wrap .0236×.0236		1 2 3	C143C096F 22A 001 C143C096F 22A 002 C143C096F 22A 004	C143C064F 22A 001 C143C064F 22A 002 C143C064F 22A 004	C143 C032F 22A 001 C143 C032F 22A 002 C143 C032F 22A 004
Lötöse solder eyelet		3	C143C096F 70A 004	C143C064F 70A 004	C143 C032F 70A 004
Flachkabel- Anschluß IDC-Termination		1 2 3	Besonderheiten der Flachkabelversion siehe Seite 28	C143C064F 40A 001 C143C064F 40A 002 C143C064F 40A 004	Details of IDC-Version see page 28
Kontaktträger f. Rastkontakte Receptacle for crimp snap-in- contacts			C143 2085 1000	Besonderheiten siehe Seite 26 Details see page 26	

Maßzeichnung / drawing
(in mm) (in inches)

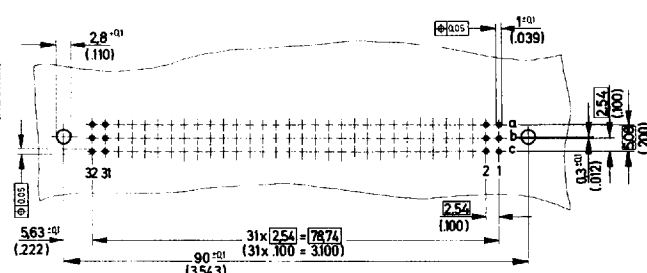


Montagelochungen (in mm)
Mounting hole patterns (in inches)

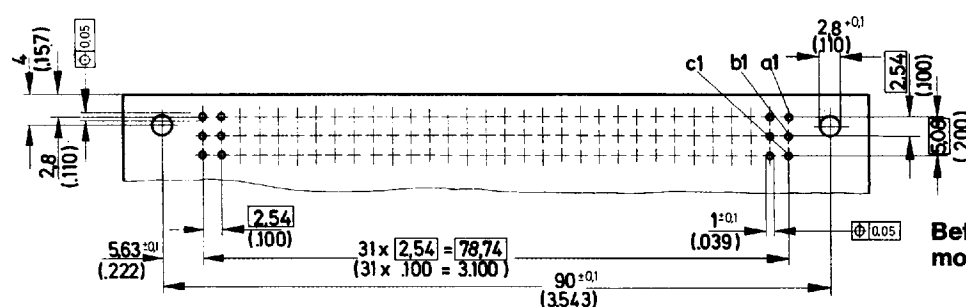
Federleisten (frei verdrahtet)
Receptacle (rack or panel mounted)



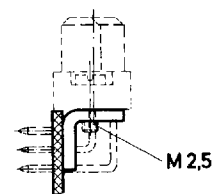
Federleisten mit geraden Anschlußenden
Receptacle with straight termination



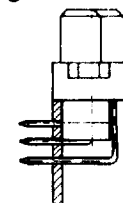
Federleiste mit abgewinkelten Anschlußenden
Receptacle with right angle termination



Befestigungswinkel (Metall)
mounting bracket (metal design)



Befestigungswinkel (Kunststoff)
mounting bracket (plastic design)



Zur Montage werden 2 Winkel benötigt.
Verpackungseinheit mit 20 Winkeln:
VN1800500011 (Metall)
VN200031000 (Kunststoff)

For mounting 2 brackets are necessary.
Bulkpack unit with 20 brackets:
VN1800500011 (metal design)
VN200031000 (plastic design)

Introduction

This catalogue presents the available AMPHENOL connector line according to DIN 41612, IEC 603-2, VG 95324, BS 9525, UTE/HE 12 and CSA Std. C 22.2 with the styles B, C/2, C, D, F, G, H, M and the "inverse" R. The DIN 41612 interconnection system is based on a family of two piece printed circuit board connectors, having contact and termination grid of .100 resp. .200 inches, with a variety of termination types. Common mounting features in the rack and mounting hole patterns of the Eurocard 3.940" x 6.300" are stated in these standards. This construction allows the user to mix different connector styles side by side within the same rack. The total AMPHENOL DIN 41612 range is fully intermateable and interchangeable with all other Euroconnectors.

Termination

The contact design of plug and receptacle style B, C/2, C, the "reverse" R allows customer specific modifications of the straight and right angle solder dips and wire wrap tail styles.

Plating of pcb-mounted versions is tin. Straight wire wrap tails are tinned, right angle wire wrap tails are gold-plated. All wire wrap tails are available in gold-plating when used as contacting area.

Performance levels resp. contact plating

To meet the individual customer demands for applications resp. contact plating, plating of the contact area is designed and exceeds the performance levels of DIN 41612 part 5. The performance levels define essentially the number of mating cycles depending on the contact plating and test conditions according to DIN 41612 part 5.

Performance level	specification	performance
VG 95324 - approved QPL-listed	VG 95324 part 1 and MTV 5935-005	500 mating cycles and industrial atmospheric test acc. to VG 95319, part 2
1	acc. to DIN 41 612 part 5	500 mating cycles and 10 days industrial atmospheric test 10 ppm SO ₂
2	acc. to DIN 41 612 part 5	400 mating cycles and 4 days industrial atmospheric test 10 ppm SO ₂
3	similar to DIN 41 612 part 5	however, 200 mating cycles without industrial atmospheric test

Tin plating on contact area showed good results on tests for connectors up to 64 contacts. Available on request. Due to the two piece construction of the female contact, plating is done after the final forming of the contact in order to achieve a uniform plating area to prevent cracks and corrossions. The contacts are fully covered with nickel base plating.

Construction of the female contact guarantees high reliability under vibration and self alignment in contact inserts, which have "closed entry". The moulding material for the inserts of style B, C/2, C, F-Crimp and R (exclusive the hand solder type) is a high temperature and solvent resistant thermoplastic (Polybutylenterephthalate PBT re-inforced) with UL 94 V-O approval. The moulding material for the inserts of the other styles is polycarbonate.

Premating contacts are .039 inch advanced for style B, C/2, D, compared to standard contacts; .059 inch advanced for style F and G compared to standard contacts. Several premating contacts are available in one insert.

After-mating contacts on request.

Specifications for AMPHENOL-EUROCONNECTORS accord. to DIN 41612 and international standards

Style	B	C	C/2	D	M	R	F	G	H
max. number contacts	64	96	48	32	78+2 up to 24+8	96	48	64	15
spacing		.100		.200	.100	.100	.200		.200
termination method plug receptacle	dip solder, solder, wire wrap wire wrap, solder, dip solder, crimp, IDC-term.			dip solder wire wrap, solder dip solder	tip solder, solder wire wrap, solder	wire wrap, dip solder, press in dip solder, wire wrap	wire wrap, solder, crimp	dip solder wire wrap, solder, crimp	dip solder, screw
max. wire size	AWG 28			AWG 22		AWG 28	AWG 22		AWG 14
thickness of pc-board	max. .090				max. .060	max. .090			max. .090
performance levels (mating cycles)	see definitions of performance levels: page 8								
dielectric material	Polybutylenterephthalate re-inforced (PBT)/Polycarbonate			Polycarbonate	Polycarbonate	PBT	Polycarbonate		Polycarbonate
flammability accord. to UL 94	V-0 for PBT/V-1 for Polycarbonate								
Insertion and withdrawal forces of connector	13.5	20.0	10.0	9.0	22.5 incl. spec. cont.	20.0	17.0	22.5	20.0
operating temperature	-85°F/+257°F								
contact material male contacts female contacts	brass (CuZn) CuSn + CuZn								
Insulation resistance	$\geq 10^{12} \Omega$								
rated voltage accord. to VDE 0110 accord. to IEC 130-1 appendix B	250 V~/300 V = group A 330 V _{eff}			125V~/150V= group C 400 V _{eff}		250 V~/300 V = group A 330 V _{eff}	125V~/150V= in group C 330 V _{eff}		500V~ 600V= group C 1000 V _{eff}
test voltage	1000 V _{eff}			1550 V _{eff}		1000 V _{eff}	1550 V _{eff}		3100 V _{eff}
Current (max.) in A at 158°F ambient temperature signal contacts high current contacts	1			4	1 40	1	4		8
Contact resistance signal contacts high current contacts Coaxial contacts center conductor outer conductor	$\leq 20 \text{ m}\Omega$			$\leq 15 \text{ m}\Omega$	$\leq 20 \text{ m}\Omega$ $\leq 3 \text{ m}\Omega$ $\leq 6 \text{ m}\Omega$ $\leq 3 \text{ m}\Omega$	$\leq 20 \text{ m}\Omega$	$\leq 15 \text{ m}\Omega$		$\leq 8 \text{ m}\Omega$
Impedance					50 Ω				
Recommended cable for coaxial contacts	RG187A/U for RG179B/U 75 Ω RG188A/U for RG316B/U 50 Ω								
tests accord. to DIN 40045	65/125/56								
Approvals accord. to	VG 95324, CSA, UL								