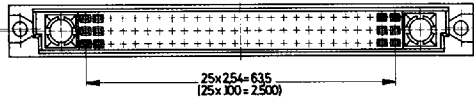


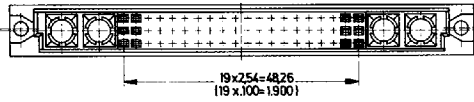
Maßzeichnung (in mm)  
Drawing (in inches)

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

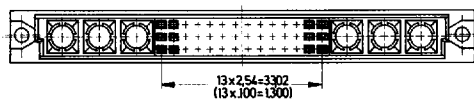
78+2 Kontakte / contacts



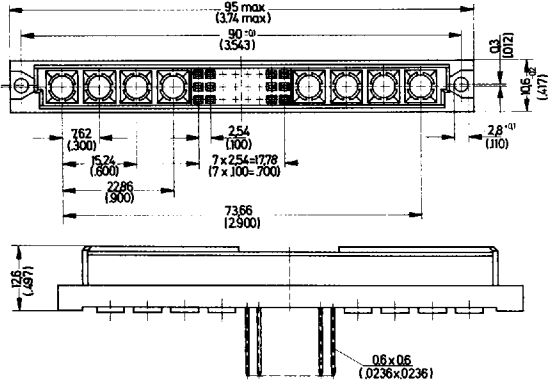
60+4 Kontakte / contacts



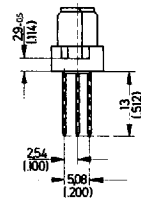
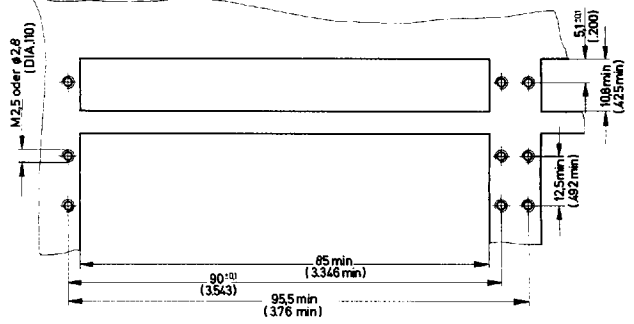
42+6 Kontakte / contacts



24+8 Kontakte / contacts



Federleiste, frei verdrahtet  
Receptacle, rack and panel mounted



Sonderkontakte / Special contacts – Bestell-Nummern / Part number chart – Koaxialsteckverbinder / coaxial contacts

Art der Kontakte Type of contacts	Darstellung End view	Verpackungseinheit mit 10 Kontakten Bulkpack unit with 10 contacts
Stecker für Kabelanschluß, male type, cable termination straight		<b>VN01 030 1100(3)</b>
Stecker für Kabelanschluß abgewinkelt male type, cable termination right angle		<b>VN01 030 1200(3)</b>
Buchse für Kabelanschluß female type, cable termination straight		<b>VN02 030 1100(3)</b>
Buchse für gedruckte Schaltung female type, right angle dip		<b>VN02 030 1000(3)</b>

Fett gedruckte Bestell-Nummern = Vorzugstypen.  
Preferred items in bold print.

Kontakte für Lichtwellenleiter / Fibre optic contacts

Art der Kontakte Type of contacts	Faser $\phi$ $\mu$ m fibre DIA $\mu$ m	Kabel $\phi$ mm cable DIA mm	Darstellung End view	Bestell-Nummer Part number
feste Ausführung fixed version	100/140	3,2		<b>C906 21N 140 2002</b>
	200/250	3,2		<b>C906 21N 250 2002</b>
	200/280	3,2		<b>C906 21N 280 2002</b>
federnde Ausführung spring loaded version	100/140	3,2		<b>C906 21M 140 2002</b>
	200/250	3,2		<b>C906 21M 250 2002</b>
	200/280	3,2		<b>C906 21M 280 2002</b>

Einzelheiten siehe Datenblatt C906  
Details see data sheet C906

## 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 <sub>2</sub>
2	acc. to DIN 41 612 part 5	400 mating cycles and 4 days industrial atmospheric test 10 ppm SO <sub>2</sub>
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	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 <sub>eff</sub>			125V~/150V= group C 400 V <sub>eff</sub>		250 V~/300 V = group A 330 V <sub>eff</sub>	125V~/150V= in group C 330 V <sub>eff</sub>		500V~ 600V= group C 1000 V <sub>eff</sub>
test voltage	1000 V <sub>eff</sub>			1550 V <sub>eff</sub>		1000 V <sub>eff</sub>	1550 V <sub>eff</sub>		3100 V <sub>eff</sub>
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 $\Omega$				
Recommended cable for coaxial contacts	RG187A/U for RG179B/U 75 $\Omega$ RG188A/U for RG316B/U 50 $\Omega$								
tests accord. to DIN 40045	65/125/56								
Approvals accord. to	VG 95324, CSA, UL								