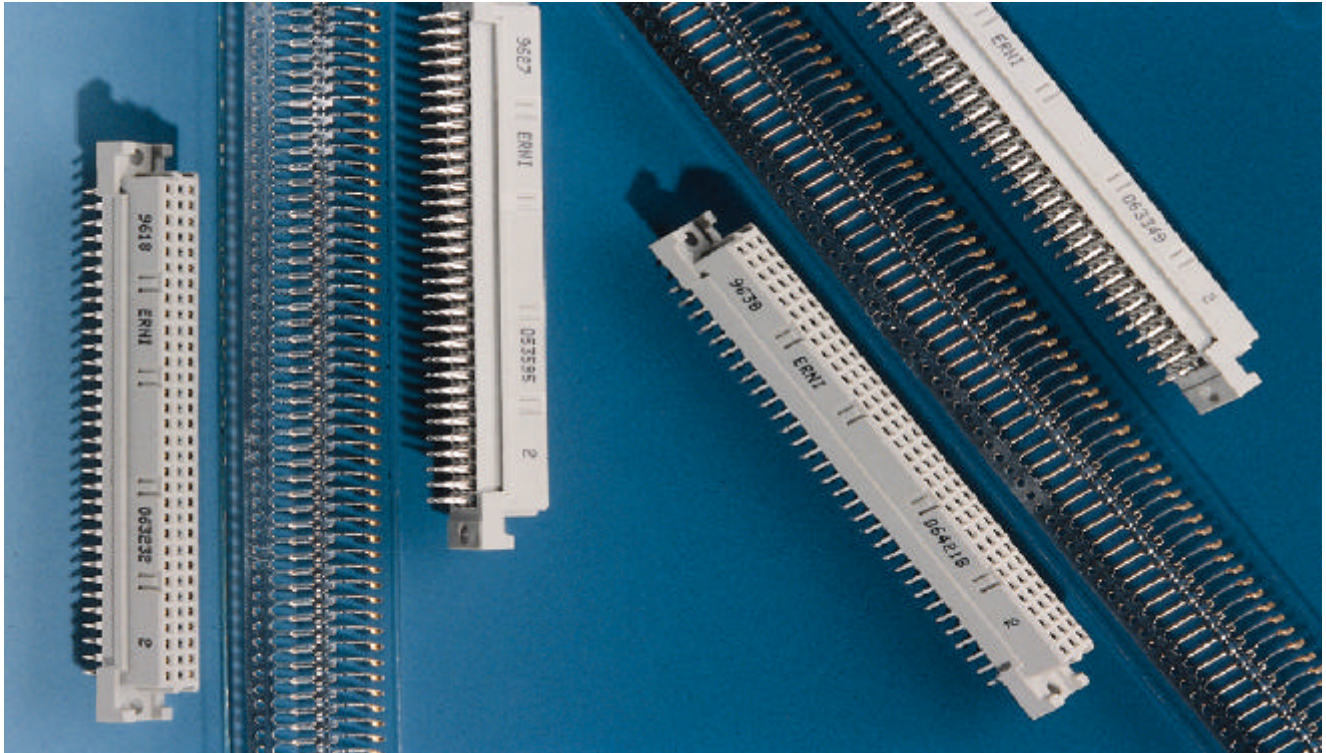


ERcom

The new DIN 41 612 / IEC 603-2 Female connector generation

New contact design with improved RF characteristics



General information

The new ERcom line is a further development of the existing DIN 41 612 / IEC 603-2 connectors. A new contact design with dual beam principle achieves substantial improvements:

- High function security
- High reliability
- Improved RF characteristics
- Low cross talk

Additional benefits of the ERcom line are easy PCB assembly of the ERcom solder pin versions and secure fixing for the solder process due to 4 kinked solder pins. The integral positioning is on the first and on the last contact of the outer contact rows for .

The press-in versions show better press-in characteristics.

The mateable coding for the type C enables the user to use it right now or to add a coding later on.

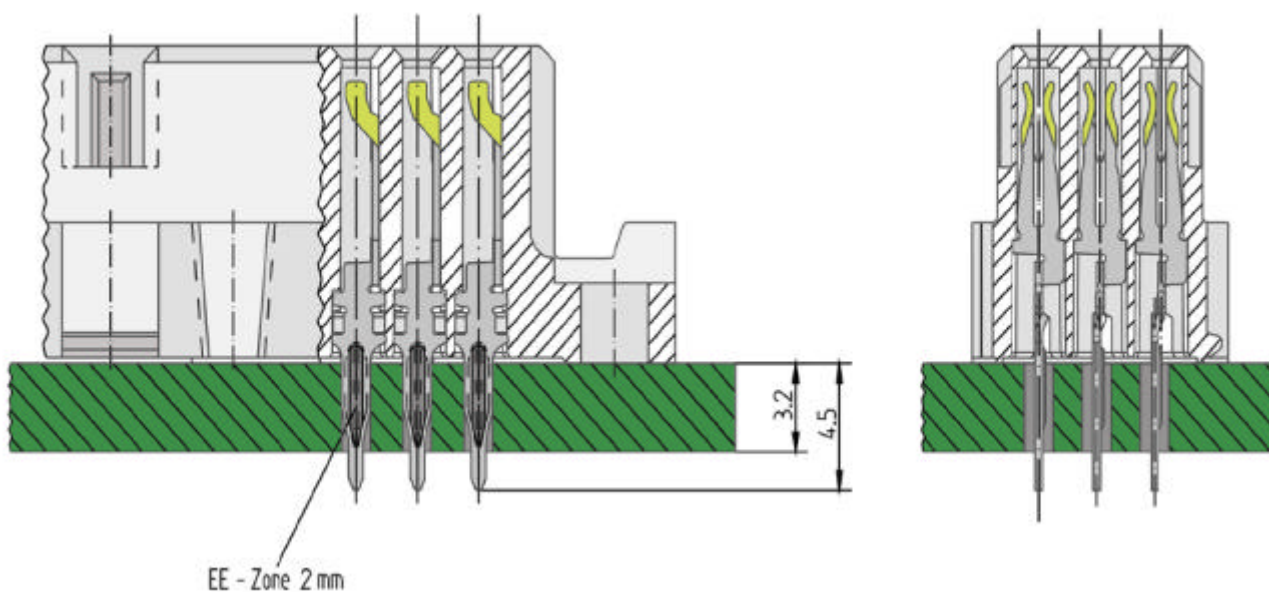
Main features

- Type C: 64 and 96 pins
Type CD: 128 pins
Type E: 160 pins
- Mateable coding for type C (for type CD and E in preparation)
- Female connectors with
 - solderless press-fit termination with the compliant ERNIPRESS zone
 - solder pin termination with 4 kinked pins for secure fixing before soldering
- Press-fit connectors in 2 versions:
 - standard version: with mounting ears
 - compact version: w/o mounting ears
- Performance level 2 for high end applications
- Performance level 3 for economic solutions

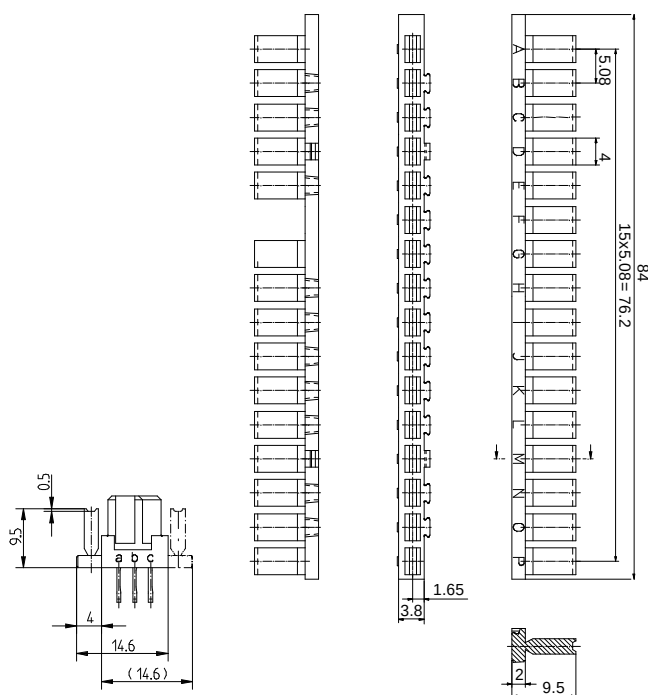
Electrical and mechanical data

Type				C	CD	E
Max. number of contacts				96	128	160
Contact row of male and female connectors				abc	abcd	abcde
Temperature range				-65° . . . +125°C		
Permissible humidity				Annual average £ 80%, max. 100%		
Creepage-(Cr) and clearance-(Cl) in mm	contact		Cr	1.8	1.8	
	to ground		Cl	1.6	1.6	
	Contact to contact	within a row	Cr	1.2	1.2	
			Cl	1.2	1.2	
		between a row	Cr	1.2	1.2	
			Cl	1.2	1.2	
Current rating at ambient-temperature				A		
				+20°C (293K)	4.0	3.0
				+70°C (343K)	2.0	2.0
				+100°C (373K)	1.0	1.0
Test voltage, 50Hz, 1min						
Contact/contact				V _{rms}	1000	1000
Contact/ground				V _{rms}	1550	1550
Contact resistance				mW	£20	£20
Insulation resistance				W	³10 ¹² at 100 VDC	
Shock and vibration proofness				No contact breakdown at 20g and 10...2000Hz		
Housing material				PBT 30% GV		
Comparative creepage figure acc. to DIN IEC 112				PBT	CTI 275 / CTI 175 M	
Service life acc. to DIN 41 612, Part 5				Performance level 2 ³ 400 mating-cycles Performance level 3 ³ 50 mating-cycles		
Mating and withdrawal force for the assembled connectors				96 pins £90 64 pins £60	128 pins £100	160 pins £110
				N		
Withdrawal force per contact (test blade)				N	³0,15	
				N		
Inflammability of the plastic				PBT	Polybutylenterephthalat non flammable as per UL 94 V-0	

New contact design for the female contact

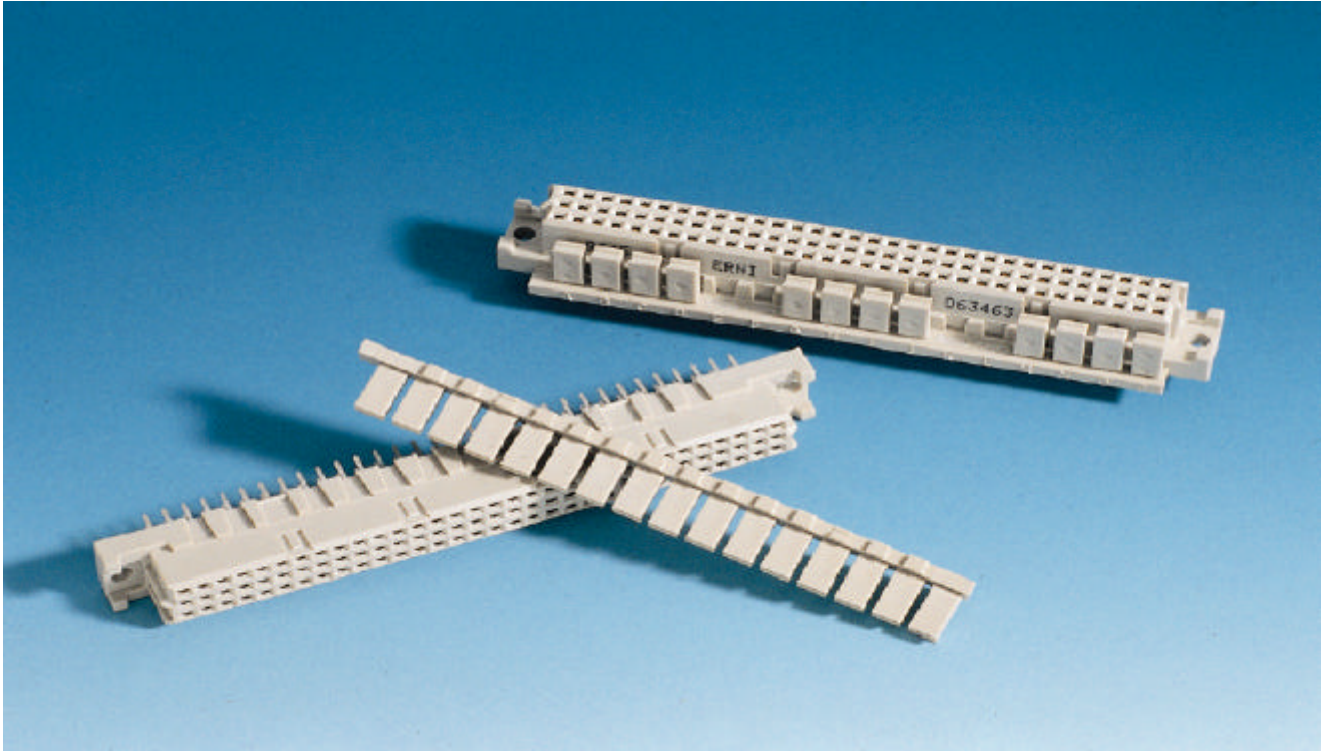


Mateable coding strip



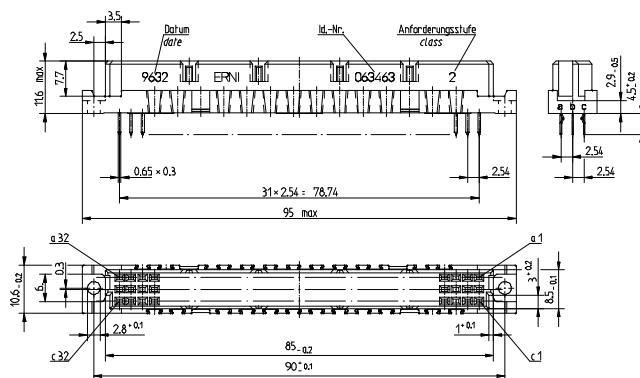
Ordering information for mateable coding strip
Part no.: 064 950

ERcom - Type C with mateable coding and integrated fixing support with solder pin or press-fit termination

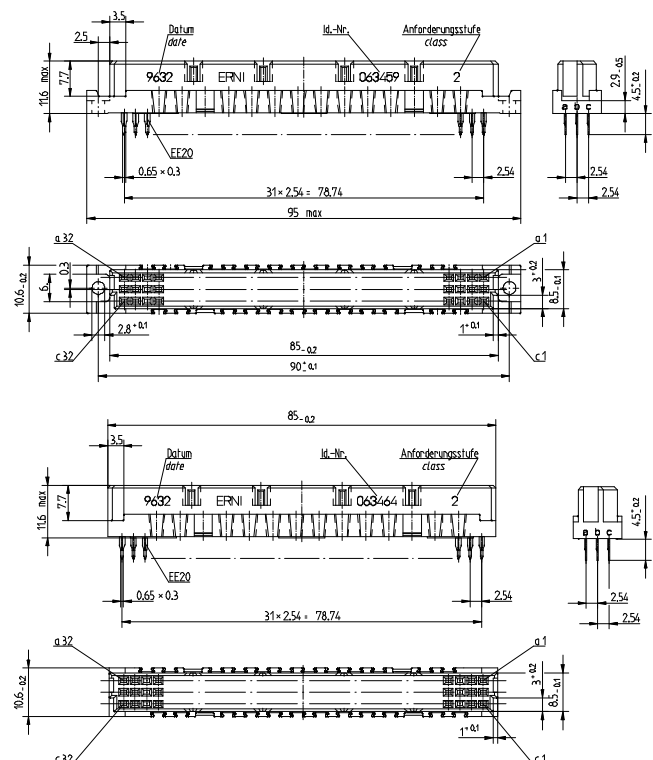


Dimensional drawings

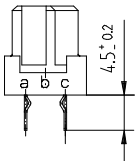
Solder pin version

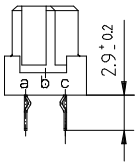


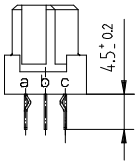
Press-fit version (with and w/o mounting ears)

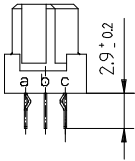


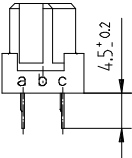
Ordering information

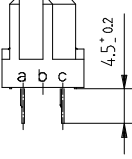
	STV-C 64-F-ac 4 kinked pins		
	207	307	
PBT	064 218	103 303	

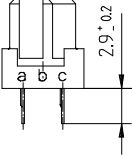
	STV-C 64-F-ac 4 kinked pins		
	207	307	
PBT	063 543		

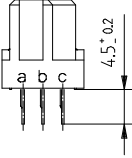
	STV-C 96-F-abc 4 kinked pins		
	207	307	
PBT	063 349	103 302	

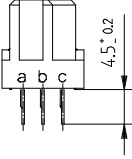
	STV-C 96-F-abc 4 kinked pins		
	207	307	
PBT	063 518		

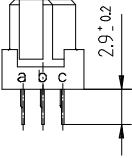
	STV-C 64-F-ac EE	
	207	307
PBT	063 232	103 301

	STV-C 64-F-ac EE without mounting ears	
	207	307
PBT	063 233	

	STV-C 64-F-ac EE	
	207	307
PBT	053 511	

	STV-C 96-F-abc EE	
	207	307
PBT	053 595	103 300

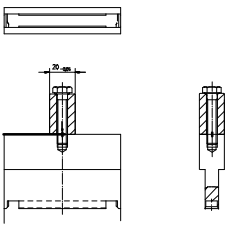
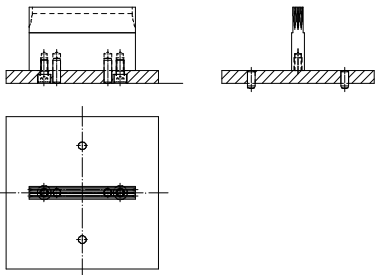
	STV-C 96-F-abc EE without mounting ears	
	207	307
PBT	054 430	

	STV-C 96-F-abc EE	
	207	307
PBT	063 512	

Press-in equipment for female connectors

Ordering information

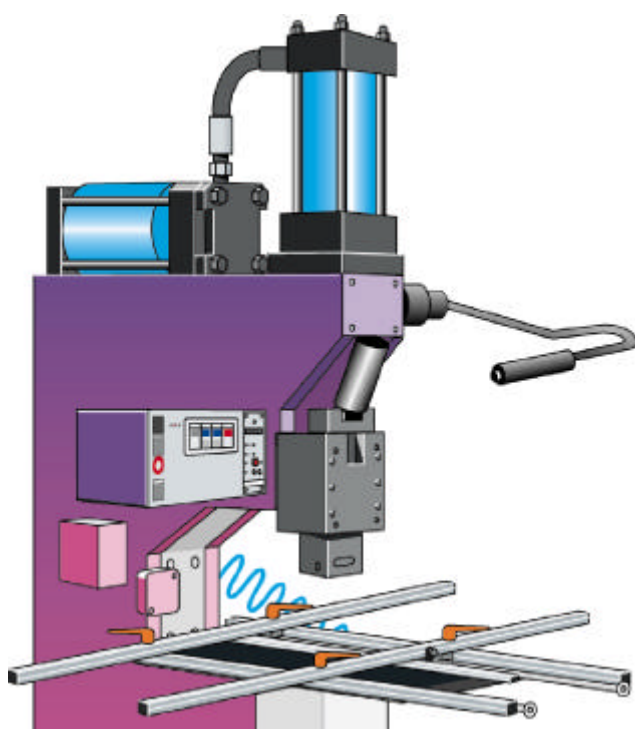
Press-in tools

Type	Flat upper tool	Lower tool
		
C	473 383	471 855
CD 128	471 792	473 447
E 160	473 363	473 447

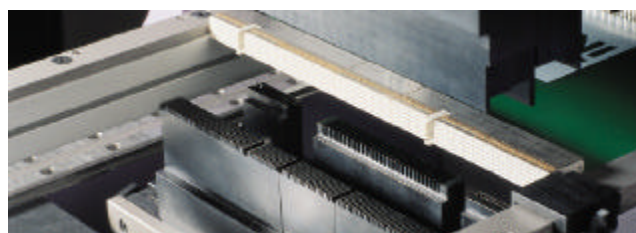
Economical and reliable press-in technology

Details of the bench presses from ERNI: control and documentation of the press-in process and press-in of rows

of connectors up to automatic loading and press-in with the ERNI press-in center.



Electronic control of press-in force and board thickness



Tool set for press-in of a row of right-angle connectors