

# Y-CIRC P CONNECTOR OVERVIEW

Connector Group		Cable Connectors						Wall Mounted Cable Connectors				Wall Mounted Connectors			Water Tight Wall Mounted Connectors		PCB Mounted Connectors																						
Connector		Plugs						Sockets				Sockets			Straight Sockets		90° Sockets																						
Connector Type Digit		PR		PB		AR		AB		SR		SB		WR		WB		WK		WJ		WA		WC		WD		IA		ID		WG		WH		WE		WI	
Connector Type		Cable Plug with Backnut for Bend Relief		Cable Plug with Standard Backnut		Angled Cable Plug with Back Nut for Bend Relief		Angled Cable Plug with Standard Back Nut		Cable Socket with Backnut for Bend Relief		Cable Socket with Standard Backnut		Wall Mounted Cable Socket with Backnut for Bend Relief		Wall Mounted Cable Socket with Standard Backnut		Wall Mounted Cable Socket Backward Mounted with Back Nut for Bend Relief		Wall Mounted Cable Socket Backward Mounted with Standard Back Nut		Standard wall Mounted Socket - Front Mounting		Wall Mounted Socket - Front and Backward Mounting		Wall Mounted Socket - Backward Mounting		Water Tight Wall Mounted Socket, Front Mounting		Water Tight Wall Mounted Socket, Backward Mounting		Straight PCB Mounted Socket with Thread and Front Nut		Straight PCB Mounted Socket without Thread		Angled PCB Mounted Socket with Thread and Front Nut		Angled PCB Mounted Socket without Thread	
Available Series		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)		B (IP50)   S (IP50)   T (IP68)			
Application		Connector to be mounted at a cable		Connector to be mounted at a cable		Angled connector to be mounted at a cable		Angled connector to be mounted at a cable		Connector to be mounted at a cable		Connector to be mounted at a cable		Connector to be mounted at a cable and a wall		Connector to be mounted at a cable and a wall		Connector to be mounted at a cable and a wall		Connector to be mounted at a cable and a wall		Socket to be fixed at the housing		Socket to be fixed at the housing		Socket to be fixed at the housing		Socket to be fixed at the housing		Socket to be fixed at the housing		PCB Mounting		PCB Mounting		Angled PCB Mounting		Angled PCB Mounting	
Available Sizes		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18		09 12 15 18			
Specialties		In average 20% shorter than competition		In average 20% shorter than competition		8 adjustable cable exit directions		8 adjustable cable exit directions		In average 20% shorter than competition		In average 20% shorter than competition		In average 20% shorter than competition		In average 20% shorter than competition		In average 20% shorter than competition		In average 20% shorter than competition		In average 20% shorter than competition		In average 20% shorter than competition		Optional ground pin available		Optional ground pin available		For length adjustment addition of hex nut possible		Metal housing for good shielding		Metal housing for good shielding					
Contacts		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp		Solder Crimp	
Optional Accessory		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief		Bend Relief	

Available | Not available/Not possible | \* Under construction

## Y-CIRC P CONNECTOR SERIES

### B-Series / B-Serie

Various keyings via housing  
IP50 classification (connected condition)  
Rugged metal housing  
360° EMI shielding  
Multiple contact variations available  
Operating temperature +120°C to -40°C  
Mating Cycles: >5,000

Unterschiedliche Kodierungen über das Gehäuse  
IP50 Klassifizierung (gesteckter Zustand)  
Robustes Metallgehäuse  
360° EMV Schirmung  
Verschiedene Kontaktvarianten verfügbar  
Betriebstemperatur +120°C bis -40°C  
Steckzyklen: >5.000

### S-Series / S-Serie

Keying via hermaphrodit insulators  
IP50 classification (connected condition)  
Rugged metal housing  
360° EMI shielding  
Multiple contact variations available  
Operating temperature +120°C to -40°C  
Mating Cycles: >5,000

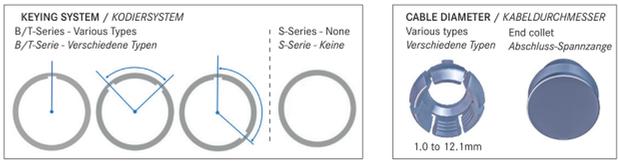
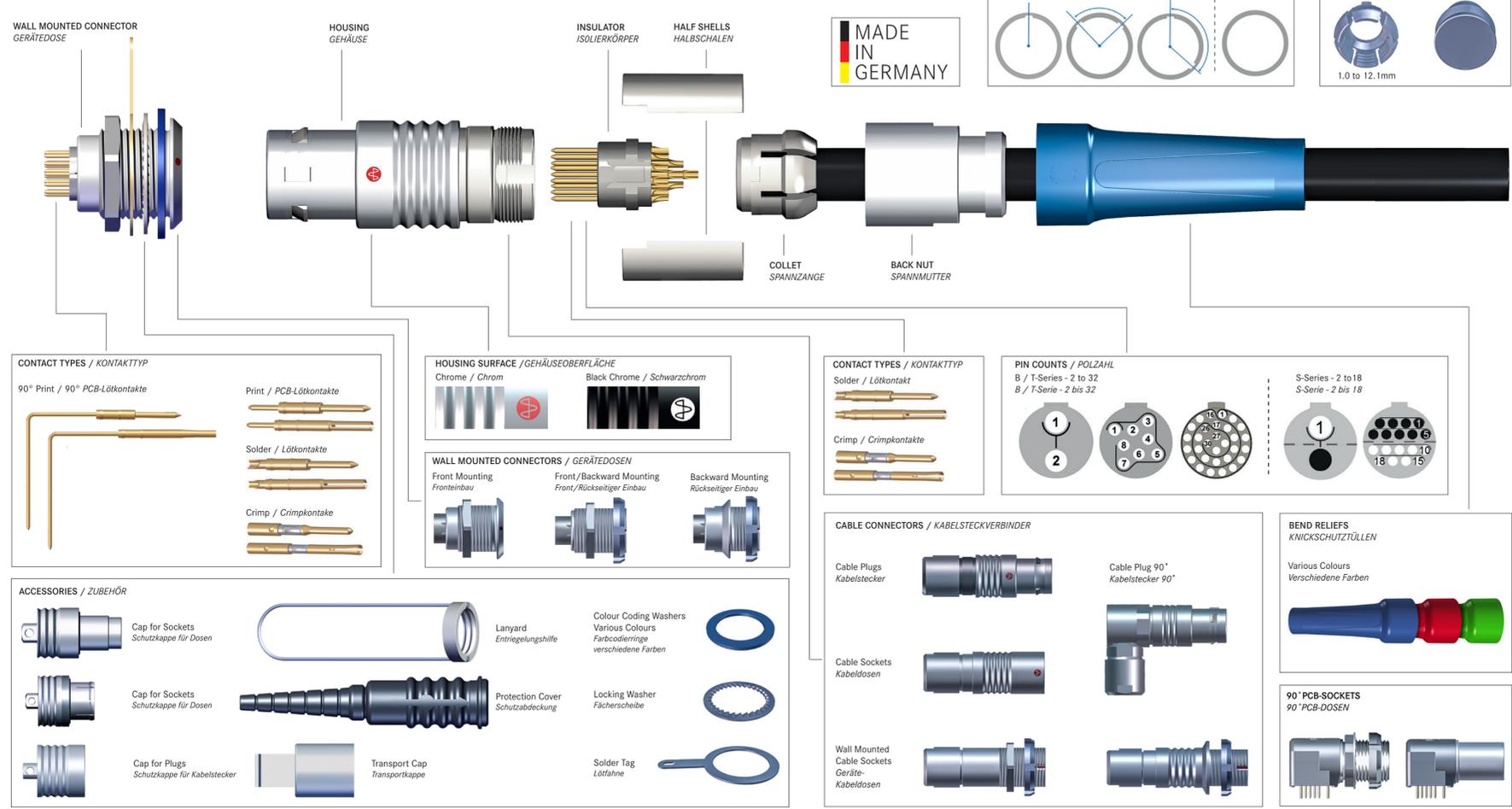
Kodierung über hermaphrodite Isolatoren  
IP50 Schutzklasse (im gesteckten Zustand)  
Robustes Metallgehäuse  
360° EMV Schirmung  
Verschiedene Kontaktvarianten verfügbar  
Betriebstemperatur +120°C bis -40°C  
Steckzyklen: >5.000

### T-Series / T-Serie

Various keyings via housing  
IP68 classification (connected condition)  
Rugged metal housing  
360° EMI shielding  
Multiple contact variations available  
Operating temperature +120°C to -20°C  
Mating Cycles: >5,000

Unterschiedliche Kodierungen über das Gehäuse  
IP68 Klassifizierung (gesteckter Zustand)  
Robustes Metallgehäuse  
360° EMV Schirmung  
Verschiedene Kontaktvarianten verfügbar  
Betriebstemperatur +120°C bis -20°C  
Steckzyklen: >5.000

## Y-CIRC P CIRCULAR CONNECTOR PARTS



## SPEED SELECTION TABLE / SCHNELL AUSWAHL

MAX. CURRENT RATING / MAX. BEMESSUNGSSTROM

Pin Count / Polzahl	Max. Current Rating [A] / Nennstrom [A]							
	S-Series / S-Serie				B/T-Series / B/T-Serie			
	09	12	15	18	09	12	15	18
02	10.0	15.0	20.0	23.0	4.5 to 10.0	4.5 to 15.0	12.0 to 25.0	36.0
03	7.0	10.0	15.0	20.0	4.5 to 8.0	4.5 to 12.0	12.0 to 17.0	25.0
04	7.0	10.0	15.0	18.0	4.5 to 7.0	4.5 to 10.0	12.0 to 15.0	19.0
05	-	-	15.0	-	4.5 to 6.5	4.5 to 9.0	12.0 to 14.0	19.0
02+03	-	-	10.0	-	-	-	-	-
06	2.5	7.0	13.0	14.0	2.5	4.5 to 7.0	12.0	17.0
07	-	-	-	12.0	2.0 to 2.5	2.0 to 7.0	11.0	15.0
03+04	-	-	12.0	-	-	-	-	-
08	-	-	9.0	10.0	-	2.0 to 6.0	6.0 to 10.0	13.0
09	-	-	-	-	1.5 to 2.0	-	-	-
10	-	-	7.0	9.0	-	1.5 to 2.5	6.0 to 8.0	12.0
12	-	-	-	8.0	-	-	6.0 to 7.0	9.0
13	-	-	-	8.0	-	-	-	-
14	-	-	-	7.0	-	2.0	6.0 to 6.5	8.0 to 9.0
16	-	-	-	7.0	-	1.5	6.0	8.0
18	-	-	-	6.0	-	-	5.5	7.0
19	-	-	-	-	-	-	5.0	-
20	-	-	-	-	-	-	-	6.0
22	-	-	-	-	-	-	-	5.5
24	-	-	-	-	-	-	-	4.0
26	-	-	-	-	-	-	2.0 to 2.0	4.0
30	-	-	-	-	-	-	-	3.5
32	-	-	-	-	-	-	1.5	-
E8	-	-	-	-	-	-	5.0	7.0

CABLE DIAMETER Ø mm  
KABEL DURCHMESSER Ø mm

Series / Serie	Size / Größe	Bend Relief Backnut		Standard Backnut	
		Min. Ø	Max. Ø	Min. Ø	Max. Ø
B/S	09	2.5	5.3	2	7.6
	12	2.5	7.1	2	7.6
	15	3	10.1	2	10.1
	18	4	12.1	4	12.1
T	09	2.5	5.1	2.5	5.1
	12	2.5	6.6	2.5	6.6
	15	3.5	8.6	3.5	8.6
	18	4.5	10.6	4.5	10.6

MAX. CURRENT FOR CONDUCTORS\*  
MAX. BEMESSUNGSSTROM FÜR LEITER\*

Nominal cross section [mm²]	Max. Current rating for multiconductor cables* [A]
4.00	34A
2.50	26A
1.50	18A
1.00	15A
0.50	9A
0.34	6A
0.25	4A
0.15	2A
0.09	1A

AWG to mm² CONVERSION  
AWG in mm² UMRÄCHNUNG

AWG M	Metric [mm²]
AWG 12	2.00
AWG 14	4.50
AWG 16	1.50
AWG 18	1.00
AWG 20	0.50
AWG 22	0.34
AWG 24	0.25
AWG 26	0.15
AWG 28	0.09
AWG 32	0.04

WIRE CROSS SECTION / ADERQUERSCHNITT

Series / Serie	Contact type / Kontakttyp	Size / Größe	Max. Wire Cross Section [mm²] / Print Diameter [mm] / Max. Aderquerschnitt [mm²] / Max. Anschlussdurchmesser [mm]															
			Pin Count / Polzahl															
S	Solder	09	0.34	0.34	0.34	-	-	-	-	-	-	-	-	-	-	-	-	
		12	0.5	0.34	0.34	-	0.34	0.34	-	-	-	-	-	-	-	-	-	
		15	1	0.5	0.5	0.5	-	0.5	-	0.5	0.34	-	0.34	-	-	-	-	-
		18	1.5	1.5	1.5	-	0.5	0.5	-	0.5	-	0.5	0.34	0.34	0.34	0.34	-	-
		09	0.7	0.7	0.7	-	0.5	-	-	-	-	-	-	-	-	-	-	-
		12	0.7	0.7	0.7	-	0.7	-	-	-	-	-	-	-	-	-	-	-
	Crimp	09	0.5	0.5	0.34	0.34	-	-	-	-	-	-	-	-	-	-	-	
		12	1	1	0.5	0.5	-	0.34	0.34	-	0.34	-	-	-	-	-	-	
		15	2.5	1.5	1	1	-	1	1	-	0.5	-	0.5	0.34	0.34	0.34	-	
		18	2.5	2.5	1.5	1.5	-	1.5	1.5	-	1	1	0.5	0.5	0.5	0.5	0.34	
		09	0.34	0.34	0.34	0.34	-	0.09	0.09	-	-	-	-	-	-	-	-	
		12	0.5	0.5	0.34	0.34	-	0.34	0.34	-	0.34	-	-	-	-	-	-	
B/T	Solder	09	0.7	0.7	0.7	-	0.5	0.5	-	0.5	-	0.5	0.34	0.34	0.34	-		
		12	0.7	0.7	0.7	-	0.7	0.7	-	0.7	-	0.7	-	-	-	-		
		18	0.7	0.7	0.7	-	0.7	0.7	-	0.7	-	0.7	0.7	0.7	0.7	-		
	Crimp	09	0.6	0.6	0.6	-	0.6	0.6	-	0.5	-	-	-	-	-	-		
		12	0.8	0.8	0.8	-	0.8	0.8	-	0.8	-	0.8	0.8	0.8	0.8	-		
		18	0.8	0.8	0.8	-	0.8	0.8	-	0.8	-	0.8	0.8	0.8	0.8	-		

**Y-CIRC P CONFIGURATOR**

Use our configurator for perfect matches:  
configurator.yamaichi.de