



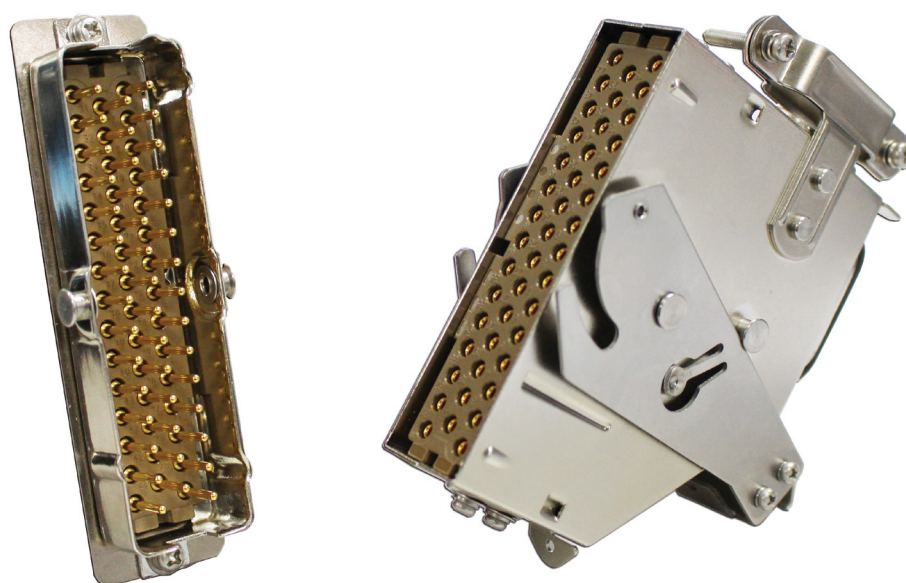
ASTP



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PRODUCT INTRODUCTION

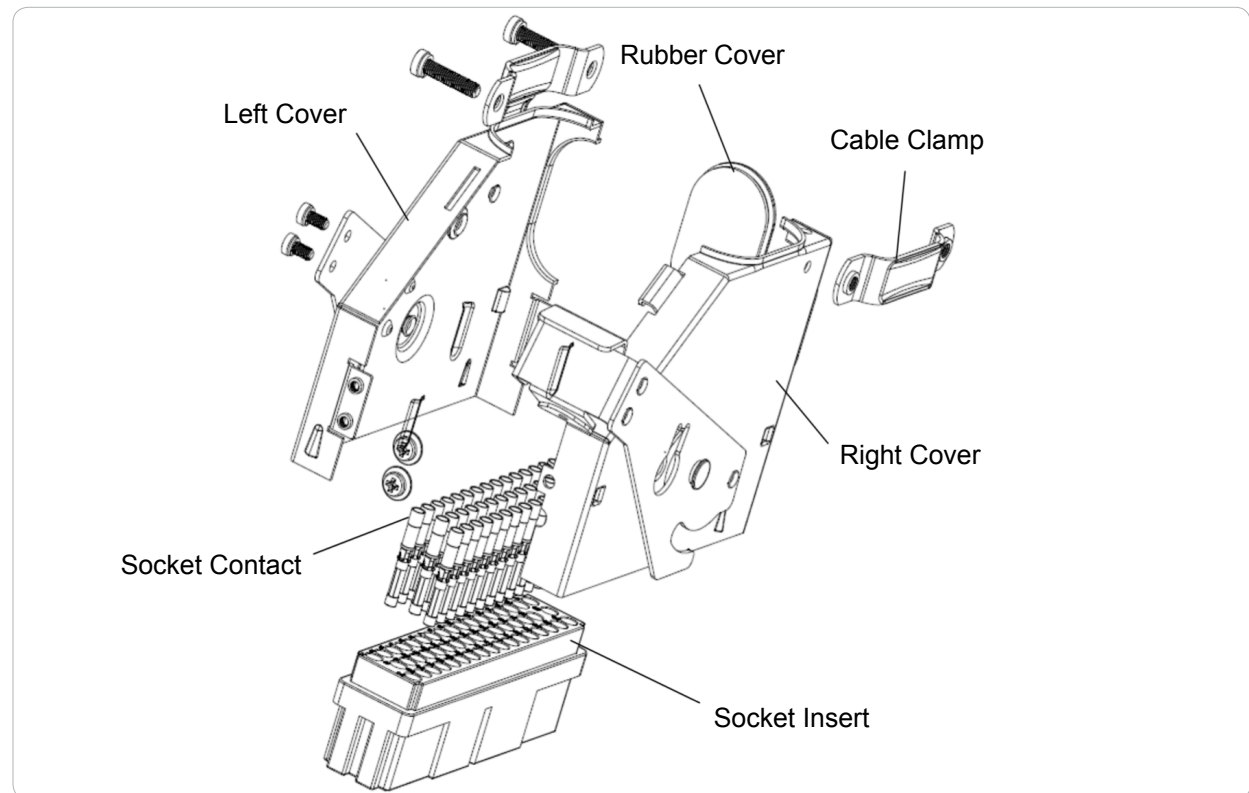


ASTP is a rectangular connector with a lever mechanism. Its metal outer shell provides a strong resistance against vibrations & shocks. ASTP can be widely used for railroad-related vehicles, communication equipment and industrial equipment.

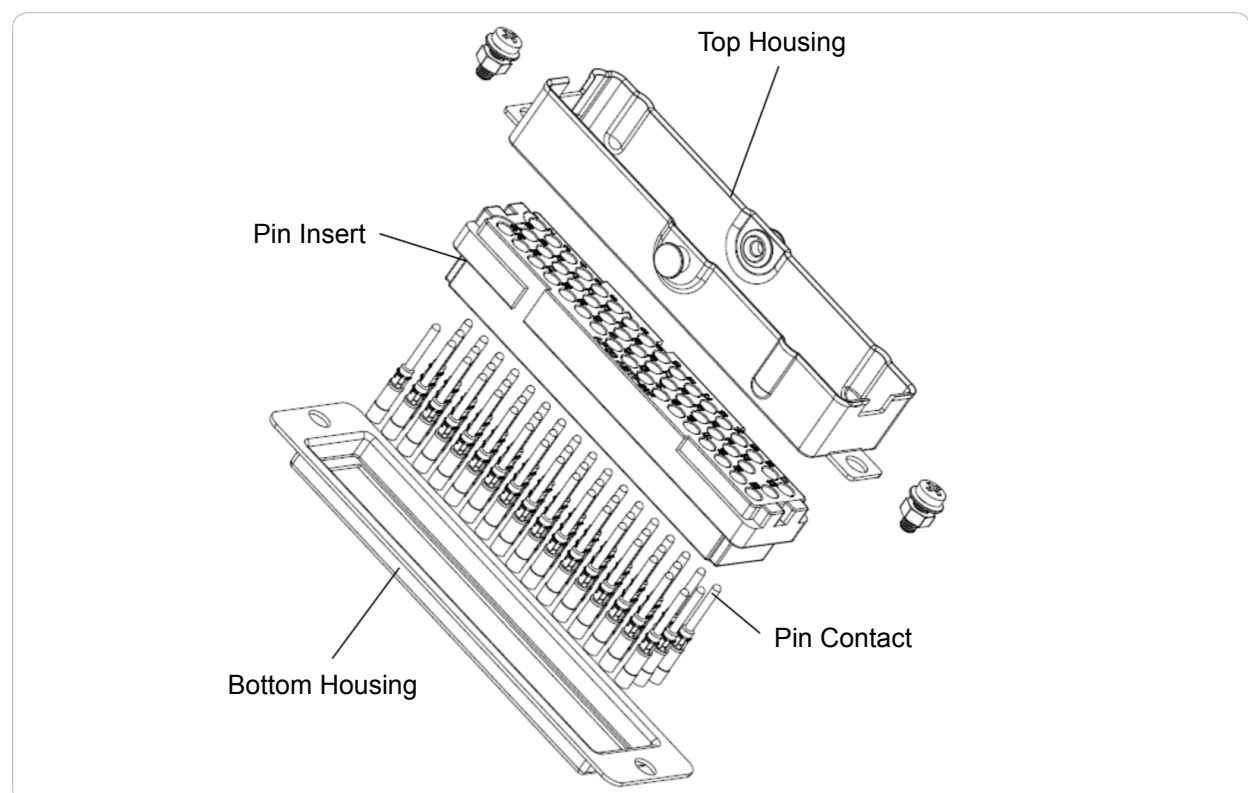
Two kinds of contact: crimp type contacts and through-hole type contacts (pins only for receptacle side) for board connection.

CONNECTOR STRUCTURE

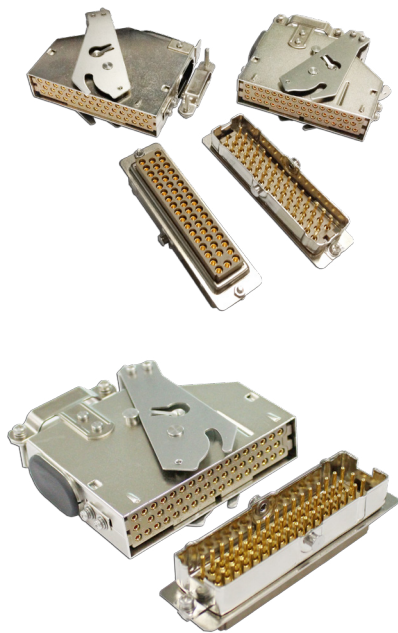
RECEPTACLE



PLUG



TECHNICAL CHARACTERISTICS



KEY FEATURES

Conforming with the French Railway standard NFF 61030

High density of alternate keying positions

EMI shielding

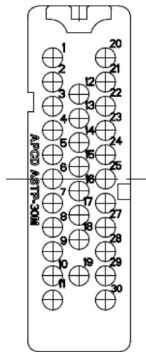
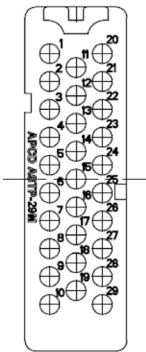
Crimping and soldering type are both available

MECHANICAL	
Durability	≥ 750 mating cycles
Vibration & shock	IEC 61373-1999 (GB/T 21563-2008)
Contact retention force	#16: 70N
ELECTRICAL	
Rated current	#16: 9A max
Rated voltage	Comforming with IEC 60077-1:1999
Contact resistance	#16: 2.5mΩ max
Insulator resistance	≥ 5000MΩ
Temperature rise	≤ 60°C
ENVIRONMENTAL	
Temperature range	-55°C to 125°C
Humidity	90% to 95% (40 ± 2°C)
Inflammability	UL94-V0
Salt spray	48h (nickel plating)
MATERIAL	
Shell	Nickel plating
Inserts	Thermoplastic
Sealing gasket	Silicon rubber
Contact	Copper alloy, gold plating

INSERT ARRANGEMENTS

Front face of pin insert or rear of socket insert illustrated

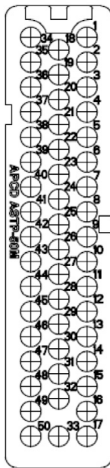
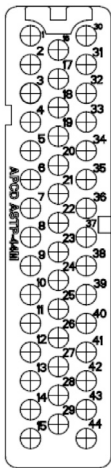
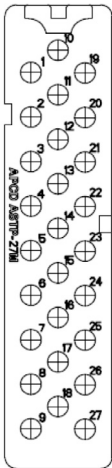
CONTACT 
16



Insert arrangement
Rated voltage
Rated current
Contact number
Contact size
Withstanding voltage

29 (NA*)
110 VDC
9A
29
#16
2000V AC

30 (NA*)
110 VDC
9A
30
#16
2000V AC



Insert arrangement
Rated voltage
Rated current
Contact number
Contact size
Withstanding voltage

27 (NA*)
110 VDC
9A
27
#16
2000V AC

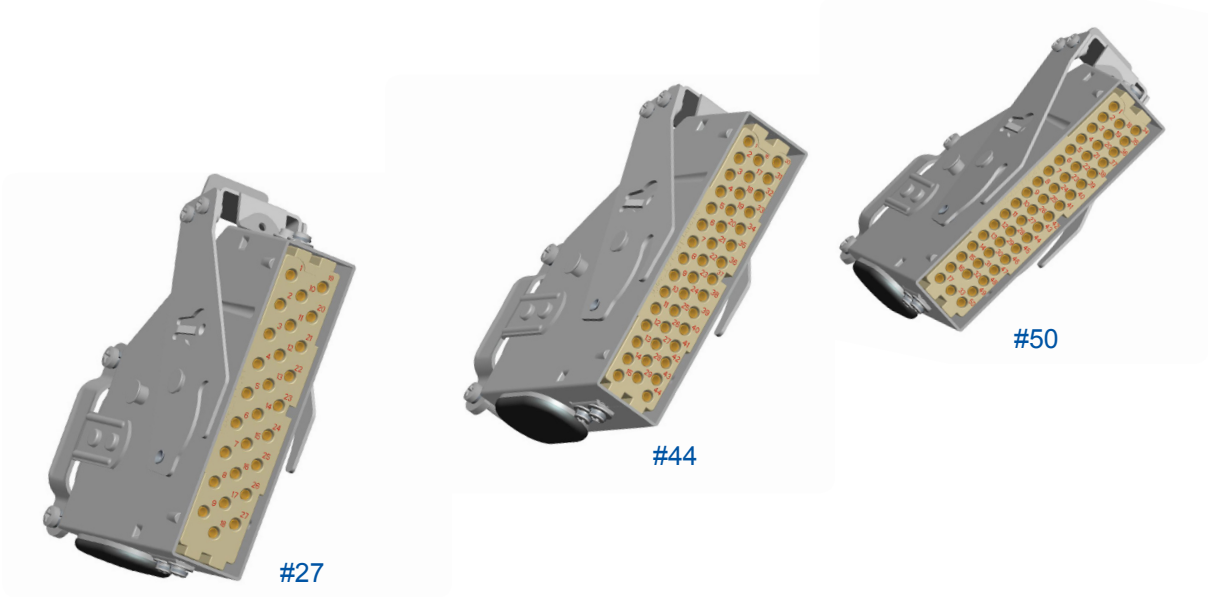
44
110 VDC
9A
44
#16
2000V AC

50
110 VDC
9A
50
#16
2000V AC

* NA: not available yet

HOW TO ORDER

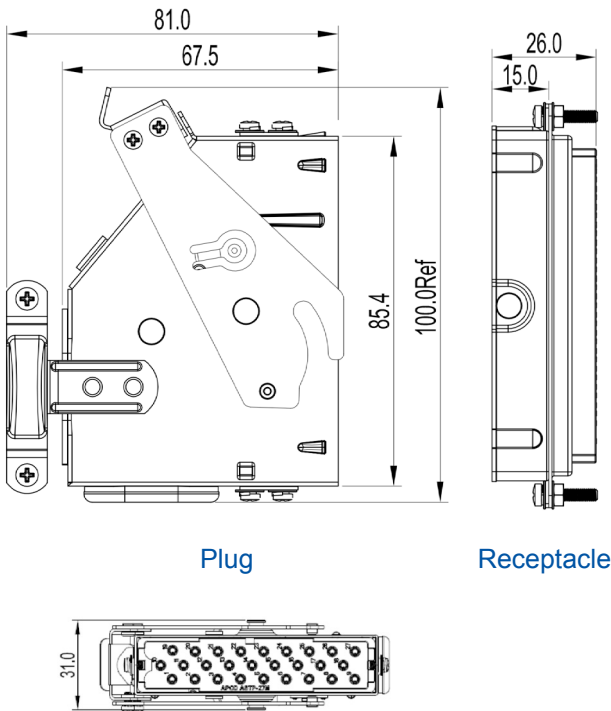
	ASTP	43	01	44	P	LC
Shell type: 43: Top entry 44: Receptacle 45: Side entry						
Alternate keying position: 01 to 16: 16 alternate keys available (see p.11)						
Insert arrangement: 27: 27 pins (NA*) 29: 29 pins (NA*) 30: 30 pins (NA*) 44: 44 pins 50: 50 pins						
Contact type: P: Male contact S: Female contact						
Contact option: Omit: With contacts LC: Without contacts						



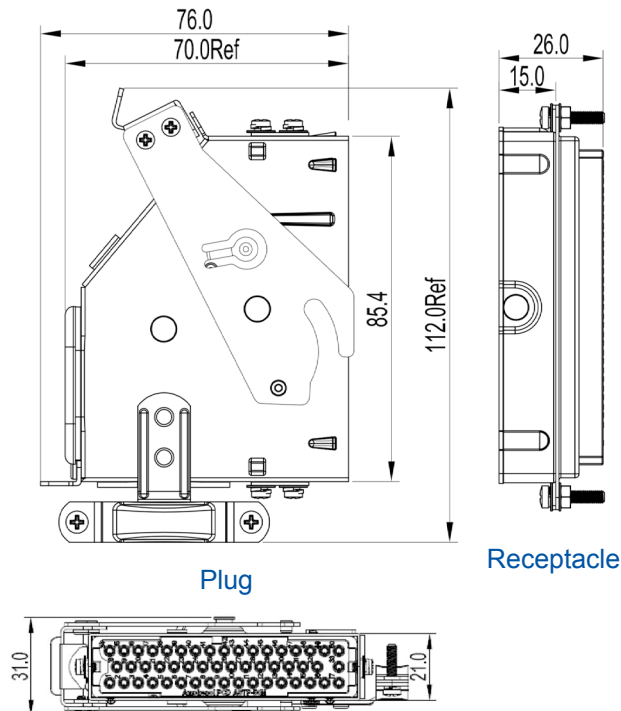
* NA: not available yet

DIMENSIONS

ALL - TOP ENTRY



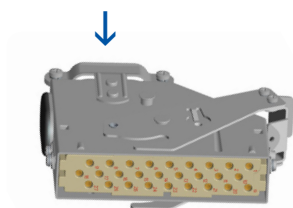
ALL - SIDE ENTRY



#27

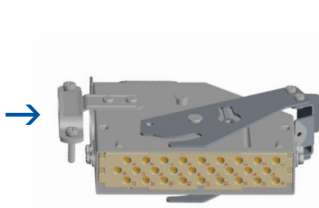
TOP ENTRY

P/N: ASTP430127SLC



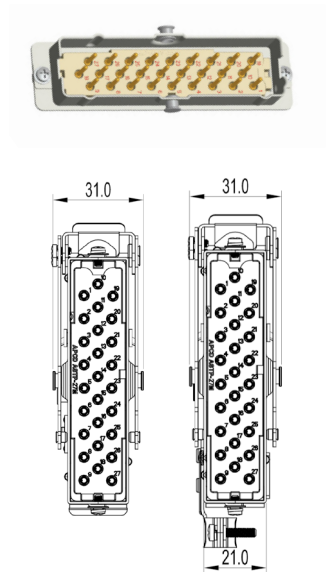
SIDE ENTRY

P/N: ASTP450127SLC



RECEPTACLE

P/N: ASTP440127PLC



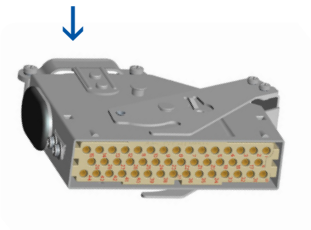
Insert arrangement	27
Rated voltage	110VDC
Rated current	9A
Contacts	27 x #16
Crimping cable	0.2 to 2.0mm ²

DIMENSIONS

#44

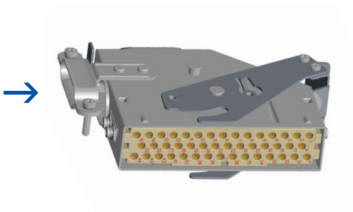
TOP ENTRY

P/N: ASTP430144SLC



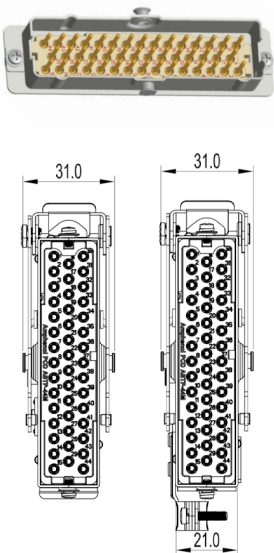
SIDE ENTRY

P/N: ASTP450127SLC



RECEPTACLE

P/N: ASTP440144PLC

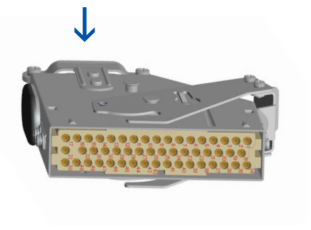


Insert arrangement	44
Rated voltage	110VDC
Rated current	9A
Contacts	44 x #16
Crimping cable	0.2 to 2.0mm ²

#50

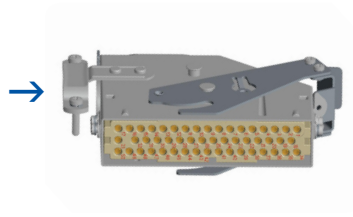
TOP ENTRY

P/N: ASTP430150SLC



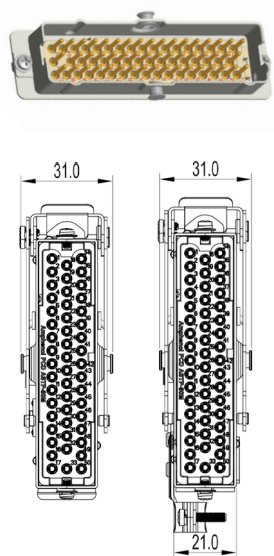
SIDE ENTRY

P/N: ASTP450150SLC



RECEPTACLE

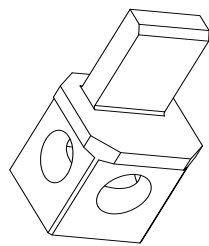
P/N: ASTP440150PLC



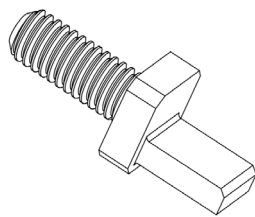
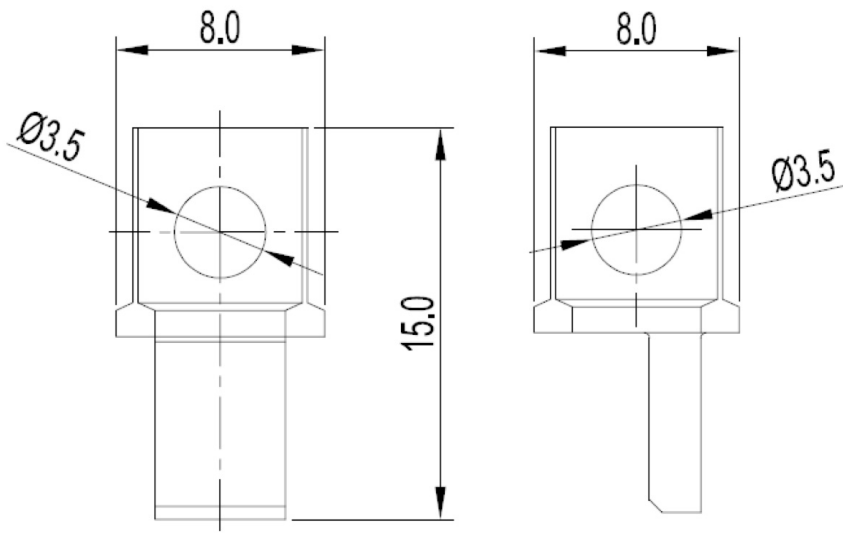
Insert arrangement	50
Rated voltage	110VDC
Rated current	9A
Contacts	50 x #16
Crimping cable	0.2 to 2.0mm ²

ALTERNATE KEYING POSITIONS - LAYOUT

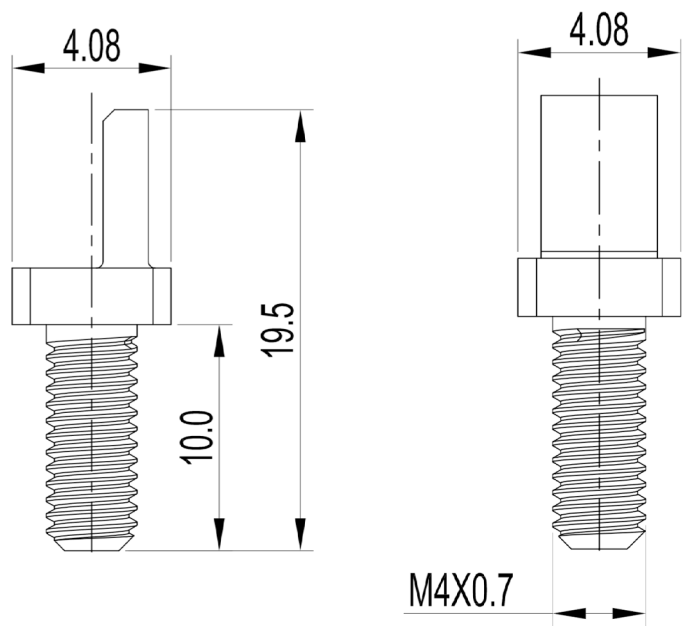
(ORDER SEPARATELY)



P/N: C420000210
Plug side
With nut and spring washer



P/N: C420000211
Receptacle side
With scew



ALTERNATE KEYING POSITIONS - TABLE

HOW TO READ THE FOLLOWING TABLE:



	Receptacle		Plug			Receptacle		Plug	
Item	C420000211		C420000210		Item	C420000211		C420000210	
1					9				
2					10				
3					11				
4					12				
5					13				
6					14				
7					15				
8					16				

MALE CONTACTS

P/N: C420000216

Technical drawing of a mechanical part, likely a shaft or rod, showing dimensions and labels. The drawing includes a cross-section view on the left and a side view on the right. The side view shows a cylindrical shaft with a diameter of $\varnothing 3.0$ at the right end. A section line is drawn across the shaft, with the label "COLOR" pointing to it. The distance from the left end of the shaft to the center of the section line is 23.2. The distance from the center of the section line to the right end of the shaft is 8.0. The diameter of the shaft at the right end is $\varnothing 3.0$. The diameter of the shaft at the left end is $\varnothing 1.60$. The diameter of the shaft at the center of the section line is $\varnothing C$. The diameter of the shaft at the right end of the section line is $\varnothing A$. The diameter of the shaft at the left end of the section line is $\varnothing B$.

Item	A	B	C	WIRE mm ²	Color
C42000020201	1.7	1.2	1.8	0.2 to 0.5	RED
C42000020202	2.7	1.2	1.8	0.2 to 0.5	GREEN
C42000020203	2.5	1.75	2.8	0.5 to 1.3	BLUE
C42000020204	2.5	2.1	2.9	1.25 to 2.0	-

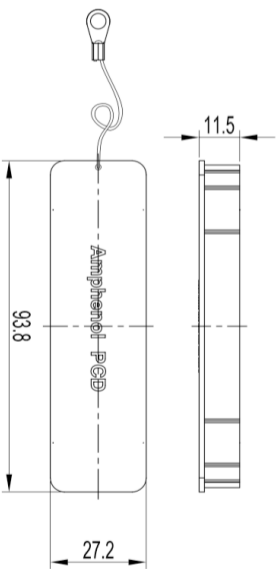
Technical drawing of a mechanical part, 100mm long. The drawing shows a cross-section with various diameters and a color-coded section. The dimensions are as follows:

- Total length: 100
- Section 1 (left): Diameter $\varnothing 10$, length 10
- Section 2: Diameter $\varnothing 12$, length 20
- Section 3: Diameter $\varnothing 14$, length 10
- Section 4: Diameter $\varnothing 16$, length 10
- Section 5: Diameter $\varnothing 18$, length 10
- Section 6: Diameter $\varnothing 20$, length 10
- Section 7: Diameter $\varnothing 22$, length 10
- Section 8: Diameter $\varnothing 24$, length 10
- Section 9: Diameter $\varnothing 26$, length 10
- Section 10: Diameter $\varnothing 28$, length 10
- Section 11: Diameter $\varnothing 30$, length 10
- Section 12: Diameter $\varnothing 32$, length 10
- Section 13: Diameter $\varnothing 34$, length 10
- Section 14: Diameter $\varnothing 36$, length 10
- Section 15: Diameter $\varnothing 38$, length 10
- Section 16: Diameter $\varnothing 40$, length 10
- Section 17: Diameter $\varnothing 42$, length 10
- Section 18: Diameter $\varnothing 44$, length 10
- Section 19: Diameter $\varnothing 46$, length 10
- Section 20: Diameter $\varnothing 48$, length 10
- Section 21: Diameter $\varnothing 50$, length 10
- Section 22: Diameter $\varnothing 52$, length 10
- Section 23: Diameter $\varnothing 54$, length 10
- Section 24: Diameter $\varnothing 56$, length 10
- Section 25: Diameter $\varnothing 58$, length 10
- Section 26: Diameter $\varnothing 60$, length 10
- Section 27: Diameter $\varnothing 62$, length 10
- Section 28: Diameter $\varnothing 64$, length 10
- Section 29: Diameter $\varnothing 66$, length 10
- Section 30: Diameter $\varnothing 68$, length 10
- Section 31: Diameter $\varnothing 70$, length 10
- Section 32: Diameter $\varnothing 72$, length 10
- Section 33: Diameter $\varnothing 74$, length 10
- Section 34: Diameter $\varnothing 76$, length 10
- Section 35: Diameter $\varnothing 78$, length 10
- Section 36: Diameter $\varnothing 80$, length 10
- Section 37: Diameter $\varnothing 82$, length 10
- Section 38: Diameter $\varnothing 84$, length 10
- Section 39: Diameter $\varnothing 86$, length 10
- Section 40: Diameter $\varnothing 88$, length 10
- Section 41: Diameter $\varnothing 90$, length 10
- Section 42: Diameter $\varnothing 92$, length 10
- Section 43: Diameter $\varnothing 94$, length 10
- Section 44: Diameter $\varnothing 96$, length 10
- Section 45: Diameter $\varnothing 98$, length 10
- Section 46: Diameter $\varnothing 100$, length 10

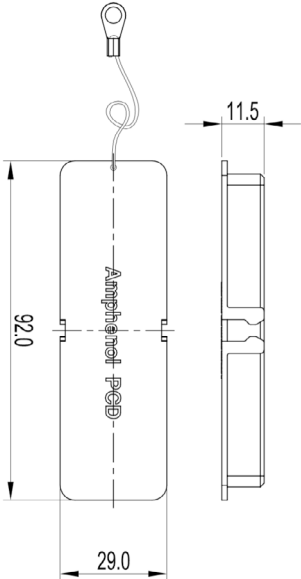
Item	A	B	C	WIRE mm ²	Color
C42000020301	1.7	1.2	1.8	0.2 to 0.5	RED
C42000020302	2.7	1.2	1.8	0.2 to 0.5	GREEN
C42000020303	2.5	1.75	2.8	0.5 to 1.3	BLUE
C42000020304	2.5	2.1	2.9	1.25 to 2.0	-

ACCESSORIES

DUST CAP



Plug side
P/N: ASTP43DC



Receptacle side
P/N: ASTP44DC

TOOLS

Contact size	Section of conductor	Crimping tool	Extraction tool
#16	0.2 to 2.0mm ²	M22520/1-01	ASTP-R-16

#16 Crimping tool M22520/1-01	#16 Extraction tool ASTP-R-16
	

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Notes:

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Amphenol PCD Shenzhen reserves the right to clarify this catalog.