

CL series circular locomotive connector



Part number

	CL	-P	18	P
Basic series				
Type of contact				
P = Pin				
S = Socket				
Contact number				
See below				
Type of connector				
P = Plug				
R = Receptacle				
KR = Receptacle without contact				
KP = Plug without contact				

Electrical performance

Contact number: 18 * $\Phi 3$

Type of contact: Crown spring

Contact resistance: $\leq 1 \text{ m}\Omega$

Rated current: 5 A

Rated operating voltage: AC, 500V

Withstanding voltage: AC, 3250V

Insulation resistance: $\geq 5000 \text{ M}\Omega$ (Normal), $\geq 500 \text{ M}\Omega$ (Damp and heat)

Cross section of conductor: 1.5 mm^2 (AWG16#)

Type of termination: Crimp

Diameter of cable: $\Phi 15 \sim \Phi 19$

Mechanical performance

Endurance: 750 cycles

Insertion and withdrawal force of contact: 3N ~ 6N

Environmental performance

Operating temperature: $-40^\circ\text{C} \sim +125^\circ\text{C}$

Humidity: 95% (40°C); 92% ~ 95% ($40^\circ\text{C} \pm 2^\circ\text{C}$)

Vibration: 10 ~ 55 Hz, amplitude 0.75 mm

Collision: 10 ~ 40 times/min, acceleration 250m/s^2

Grade: IP67

Salt spray: 96 hours

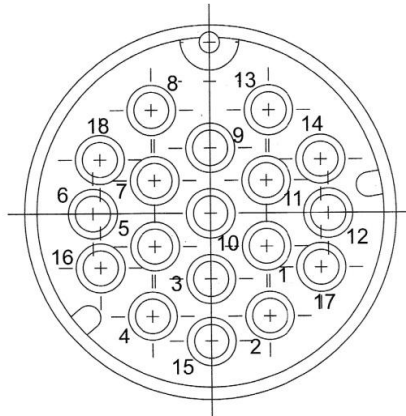
Material

Shell: Aluminum-alloy and polyamide 6.6

Contact: Copper-alloy

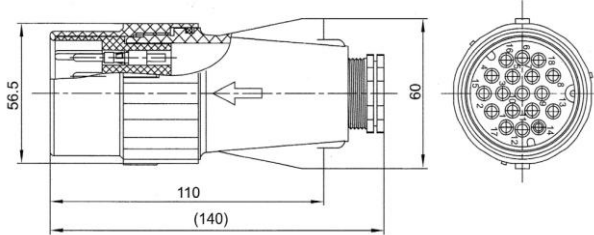
Finish: Silver plating or gold plating

Contact layout

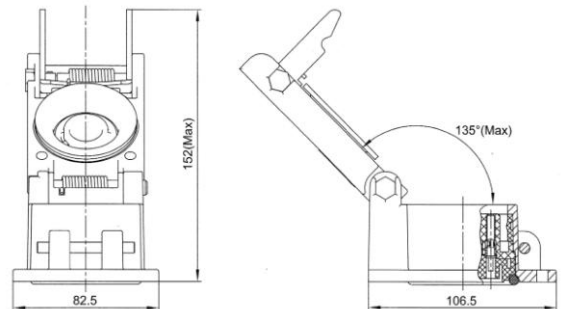


Size

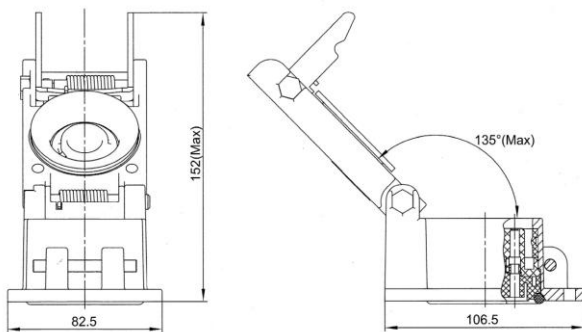
Plug (CL-P18P)



Receptacle (CL-S18R)



Receptacle without contact (CL-S18KR)



Mounting hole of receptacle (CL-S18R, CL-S18KR)

