

VGE series circular locomotive connector



Part number

	VGE	3456B	22	-14	P	N
Basic series						
Type of connector						
3456B = Receptacle						
3456D = Plug						
Shell size						
18, 22						
Contact layout						
See below						
Type of contact						
P = pin						
S = socket						
Orientation						
N, W, X, Y, Z						
0 = shell without insulator						

Back shell

	1784A	C	S	22	-88	00
Basic series						
Cable clamp adapter						
C = Cable clamp adapter						
Omit = Without cable clamp adapter						
Type of back shell						
S = Straight						
J = Hermetic cable clamp						
E = 90° Elbow						
Shell size						
18, 22						
Grommet						
Omit = With grommet						
88 = Without grommet						
Type of adapter						
00 = Short						
Omit = Long						

Electrical performance

Contact number: 19 ~ $\Phi 1.59$; 10 ~ $\Phi 1.59$

Type of contact: Crown spring

Contact resistance: $\leq 2.5 \text{ m}\Omega$

Rated current: 15 A

Rated operating voltage: 500 V

Withstanding voltage: 3250 V

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

Termination: Crimp

Cross section of conductor: $0.5 \text{ mm}^2 \sim 1.25 \text{ mm}^2$

Mechanical performance

Endurance: 500 cycles

Insertion and withdrawal force of contact: $0.6 \text{ N} \sim 1.3 \text{ N}$

Environmental performance

Operating temperature: $-40^\circ\text{C} \sim +100^\circ\text{C}$

Humidity: 92% ~ 95% (40°C)

Vibration: 1 ~ 10 Hz, amplitude 7.5 mm; 10 ~ 55 Hz, amplitude 0.6 mm; 55 ~ 500 Hz, 60 m/s^2

Material

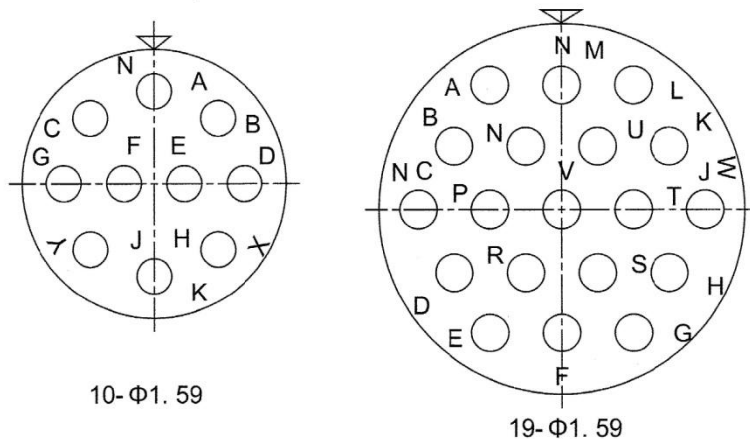
Shell: Aluminum-alloy

Contact: Copper-alloy

Plating of shell: Black anodized

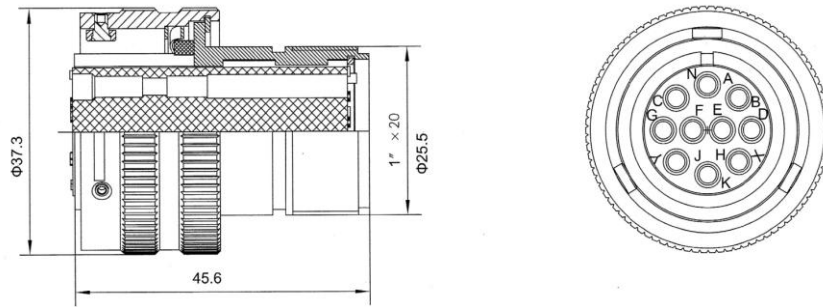
Plating of contact: Gold plating

Contact layout

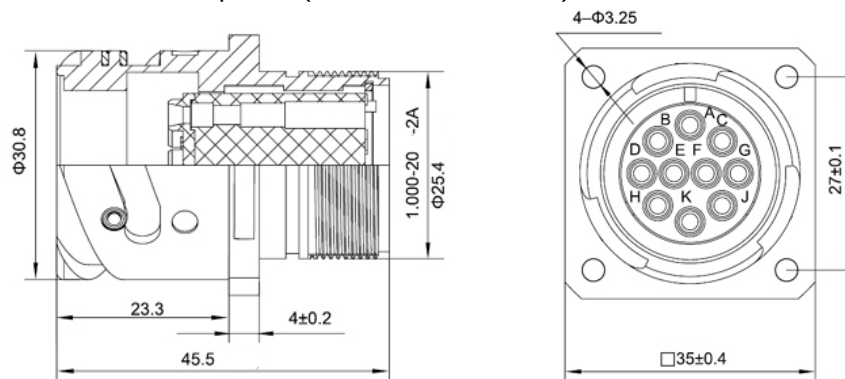


Shell size

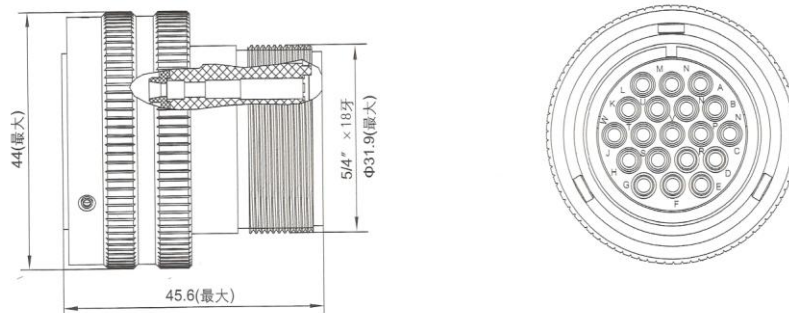
Plug (VGE-3456D18-19SN)



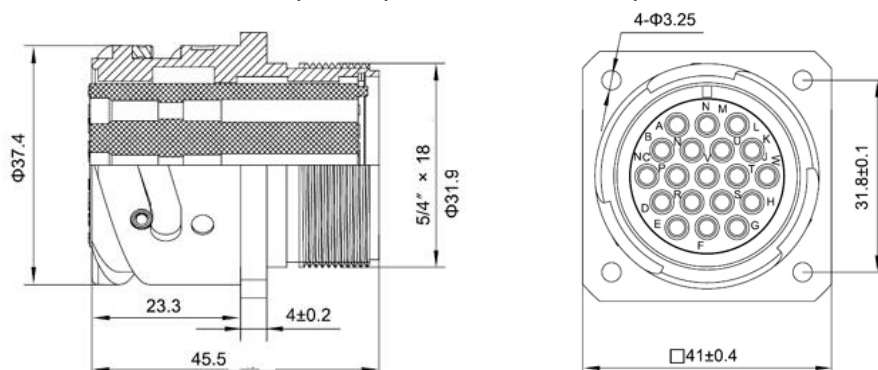
Receptacle (VGE3450B18-19PN)



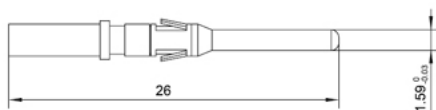
Plug (VGE3450D22-14P0)



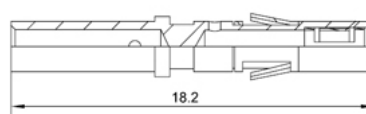
Receptacle (VGE3450B22-14S0)



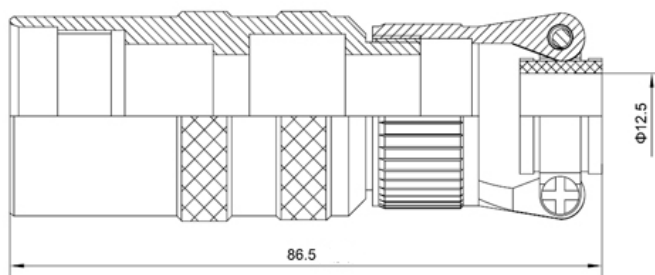
Pin J1216E-1.5P



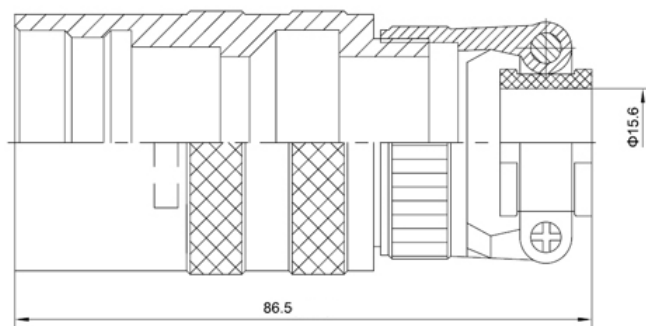
Socket J1216N-1.59S



Straight back shell 1784A/CS18-8800



Straight back shell 1784A/CS22-8800



90° Elbow back shell

