

YHGE CONNECTOR

VG96929 Style





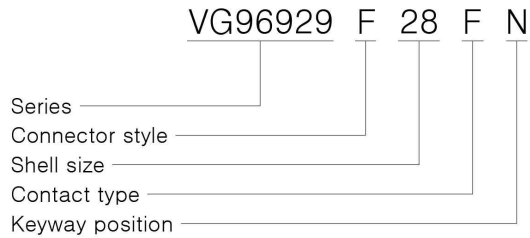
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Overview

These connectors are used to transmit very high current at low voltage, as for example in the electrical equipment of military land and sea-borne vehicles and in industrial facilities. The connectors meet the mating dimensions, mechanical features and rear panel installation requirements of VG 95234. These YHGE connectors are in accordance with VG96929 spec and VG95218.

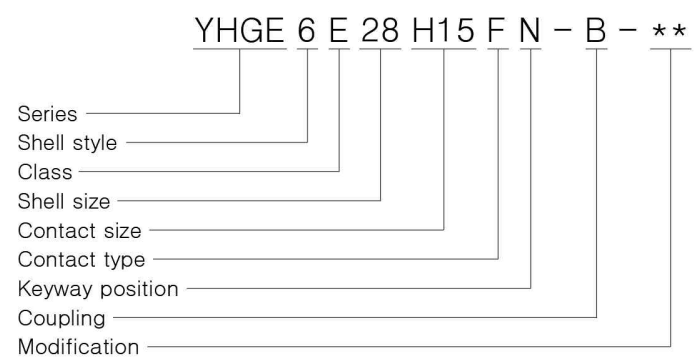
How to order VG Order reference



Explanation

- Series – Main number (VG96929)
- Connector Style
 - A1 – Wall mounting receptacle; rear mounting flange with threaded holes
 - A2 – Wall mounting receptacle ; Front mounting flange with through contact terminal
 - B1 – Wall mounting bulkhead receptacle
 - C – Wall mounting receptacle; rear mounting square flange with heat shrink boot adaptor
 - E – Plug with 90; shielded with heat shrink boot adaptor
 - F – Straight plug with heat shrink book adaptor
 - G – Straight plug; shielded with heat shrink book adaptor
- Shell Size
 - 16, 18, 22, 28, 32
- Contact type
 - F – Spring contact
 - Z – Cylinder contact
- Keyway Position
 - N – 180°
 - W – 120°

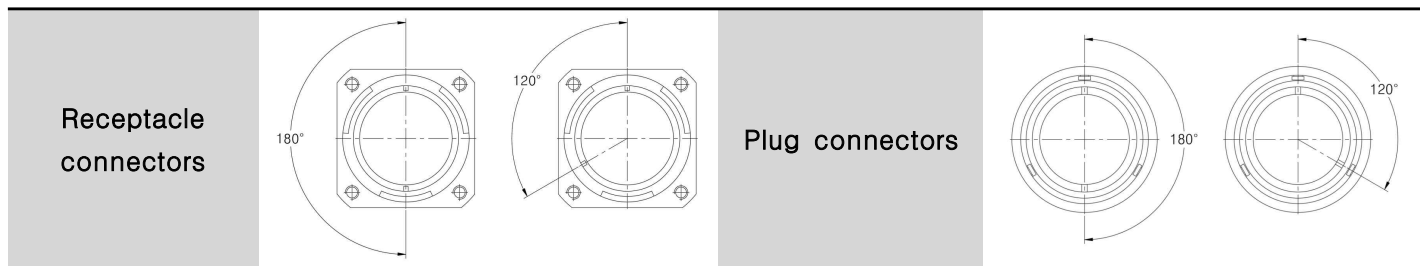
How to order YEONHAB Order reference



Explanation

- Series – YEONHAB Designation
- Shell Style
 - 0 – Wall mounting receptacle with flange
 - 1 – Cable connecting plug
 - 2 – Box mounting receptacle with flange
 - 6 – Straight plug
 - 8 – Plug 90°
- Class
 - E – Environmental, IP67 acc to DIN 40050
- Shell Size
 - 16, 18, 22, 28, 32
- Contact Size
 - H5 – H5 / 50 mm²
 - H9 – H9 / 95 mm²
 - H15 – H15 / 150 mm²
 - H24 – H24 / 240 mm²
- Contact type
 - F – Spring contact
 - Z – Cylinder contact
- Keyway Position
 - N – 180°
 - W – 120°
- Coupling
 - B – Bayonet Coupling
- Modification
 - 03 – Adapter for heat shrink boots
 - 04 – Rear panel mounting, threaded holes
 - 05 – Same as -04, however, with through holes
 - 14 – Shielded version
 - 16 – Thread bolt termination, front panel mounting, O ring for sealing between wall and receptacle (for YHGE2E-B only)

Keyway Position



Technical data

Mechanical Data

Admissible ambient temperature	-55 °C to +125 °C
Class	IP 07 according to DIN 40 050-9 Test pressure: 1 bar over pressure Test duration: 12 hours
Vibration	200 m/s ² for 10 to 2,000 Hz
Durability	500 mating cycles

Coupling Torque (VG95319-2)

Shell Size	Opening and Closing Max.	Opening Min.
18	8.0 Nm	0.6 Nm
22	11.0 Nm	0.8 Nm
28	17.0 Nm	0.9 Nm
32	19.0 Nm	1.0 Nm

Contact Retention (VG95319-2)

Contact Size	Test Force Min.
H5	120 N
H9	140 N
H15	160 N
H24	200 N

Electrical Data

Insulating Resistance : 5,000 MΩ Min.

Voltage (According to MIL-STD-1344)

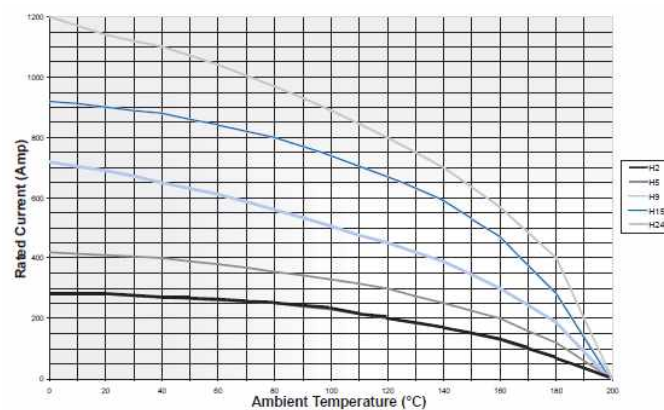
Test Voltage	1050 Vac
Working Voltage	350 Vac

Air and Creepage Paths

Air path	.118 (3.00) min.
Creepage path	.197 (5.00) min.

Contact Rating

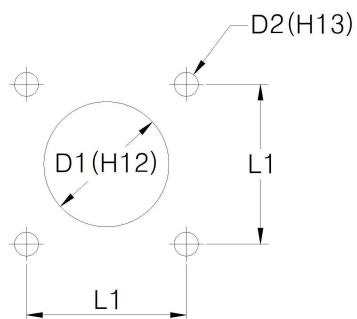
Shell Size	18	22	28	32
Contact Size	H5	H9	H15	H24
Max. Current rating (at 125 °C ambient temperature)	300 A	500 A	650 A	1,000 A
Max. short-time load approximate 0,5 – 1 sec.	1,000 A	2,000 A	3,000 A	5,000 A
Contact Resistance	0.30 mΩ	0.15 mΩ	0.10 mΩ	0.07 mΩ



Materials and Finishes

Shell	Aluminum Alloy
Finish	Olive Chromate over cadmium
Insulator	PTFE
Contact	Copper and copper alloy
Finish	Hard Silver

Panel Cut-Out



Shell size	Rear Panel Mount Receptacle VG96929 Style A1, B1 YHGE0E-B-03 YHGE2E-B-04			Front Panel Mount Receptacle VG96929 Style A2 YHGE2E-B-16			
	H12	H13	L1 ±0.15	H12	D2		L1 ±0.15
	D1 +0.15 -0.00	D2 +0.15 -0.00		D1 +0.15 -0.00	H13 +0.15 -0.00	Thread.	
18	31.1	4.5	27.0	27.4	4.5	M4x0.7	27.0
22	37.8	4.5	31.8	33.7	4.5	M4x0.7	31.8
28	47.1	5.5	39.7	43.3	4.5	M4x0.7	39.7
32	53.8	5.5	44.5	49.7	4.5	M4x0.7	44.5

UNITS : mm

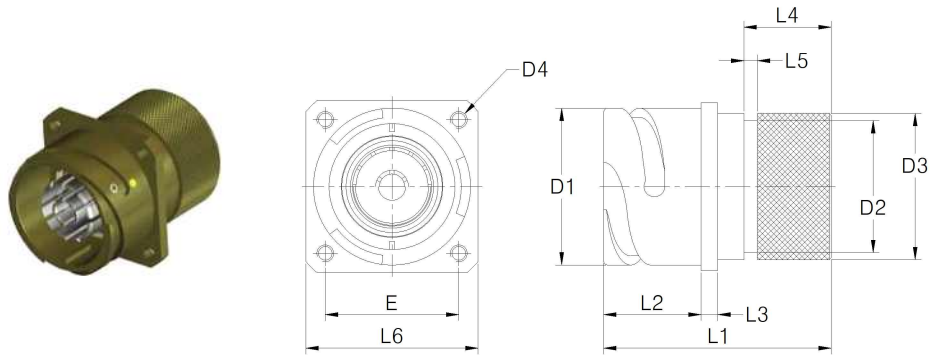
YHGE Series (VG96929 Style)

YHGE0E...B-03 / Wall Mounting Receptacle

VG96929 Style B1

Threaded holes in flange,
adapter for heat shrink boot

YHGE0E-B-03 and Modifications,
see page 3



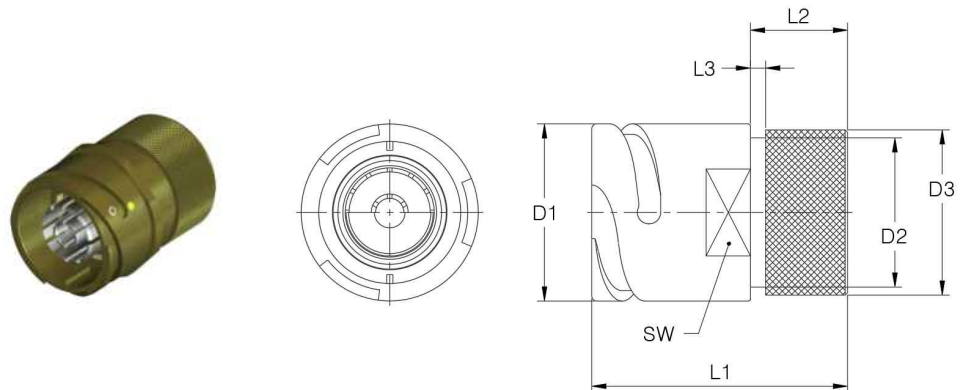
UNITS : mm

Shell size	D1 +0.00 -0.15	D2 Max.	D3 Max.	D4	E ±0.1	L1 ±0.4	L2 ±0.4	L3 ±0.3	L4 ±0.2	L5 +0.4 -0.0	L6 ±0.3
18	30.80	25.8	28.4	M4x0.7	27.0	50.0	23.05	4.0	18.1	3.5	35.0
22	37.40	33.0	35.3	M4x0.7	31.8	54.0	23.05	4.0	20.8	3.5	41.0
28	46.70	41.3	44.8	M5x0.8	39.7	65.3	24.05	4.0	20.8	3.5	50.8
32	53.40	46.1	49.6	M5x0.8	44.5	66.8	28.90	4.0	28.0	3.5	57.0

YHGE1E...B-03 / Cable Connecting Plug

Cable connecting plug
adapter for heat shrink boot

YHGE0E-B-03 and Modifications,
see page 3



UNITS : mm

Shell size	D1 +0.00 -0.15	D2 Max.	D3 Max.	L1 ±0.3	L2	L3	SW
18	30.80	25.7	28.3	50.0	20.0	3.5	28.0
28	46.70	41.3	44.8	65.4	20.0	3.5	42.9
32	53.40	45.9	50.15	66.7	28.0	3.5	50.0

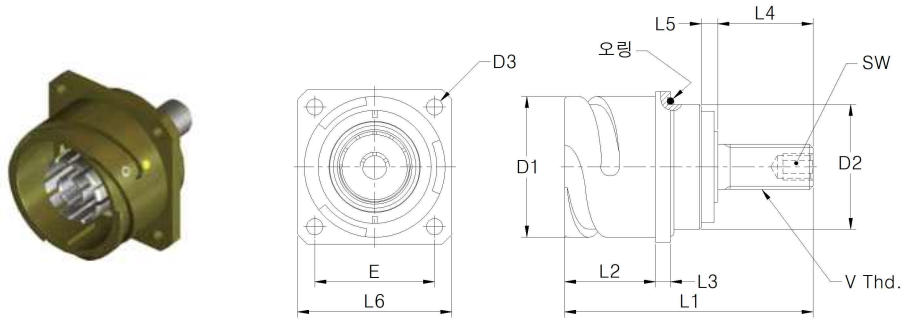
YHGE Series (VG96929 Style)

YHGE2E...B-16 / Box Mounting Receptacle

VG96929 Style A2

Front panel mounting, Through holes in flange, threaded bolt termination for solid copper rail

YHGE2E-B-16 and Modifications,
see page 3



UNITS : mm

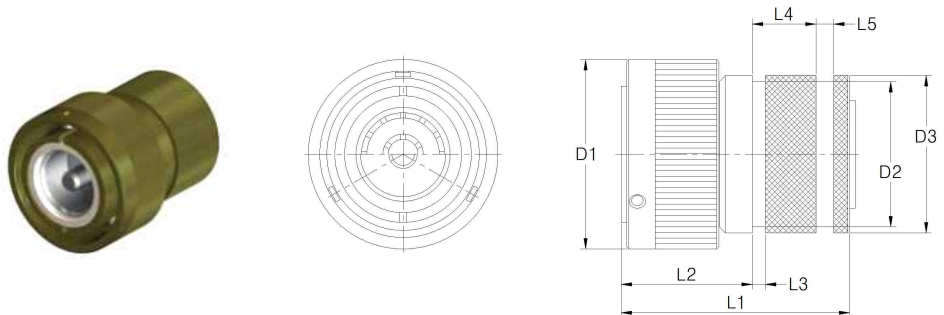
Shell size	D1 +0.00 -0.15	D2 +0.00 -0.15	D3 H13	E ±0.1	L1 Max.	L2 +0.4 -0.0	L3 ±0.2	L4 ±0.5	L5 ±0.3	L6 ±0.3	SW	V Thread.
18	30.80	26.9	4.3	27.0	55.0	23.05	4.0	15.0	4.0	35.0	3.0	M8x1.25
22	37.40	33.2	4.3	31.8	66.0	23.05	4.0	25.0	4.4	41.0	6.0	M12x1.75
28	46.70	42.8	4.3	39.7	61.0	24.05	4.0	20.0	4.0	50.8	6.0	M12x1.75
32	53.40	49.2	4.3	44.5	73.0	28.90	4.0	30.0	6.0	57.0	8.0	M16x2.00

YHGE6E...B-03 / Straight Plug

VG96929 Style G

Adapter for heat shrink boots

YHGE6E-B-03 and Modifications,
see page 3



UNITS : mm

Shell size	D1 Max.	D2 Max.	D3 Max.	L1 Max.	L2 Max.	L3 ±0.2	L4 (Optional)	L5 ±0.2 (Optional)
18	36.5	25.8	28.4	53.0	33.0	3.7	—	—
22	43.1	31.5	35.3	57.0	37.0	3.7	13.3	5.0
28	53.5	41.3	44.8	65.0	37.0	3.7	18.0	5.0
32	60.1	46.1	49.6	65.0	39.0	3.7	15.0	5.0

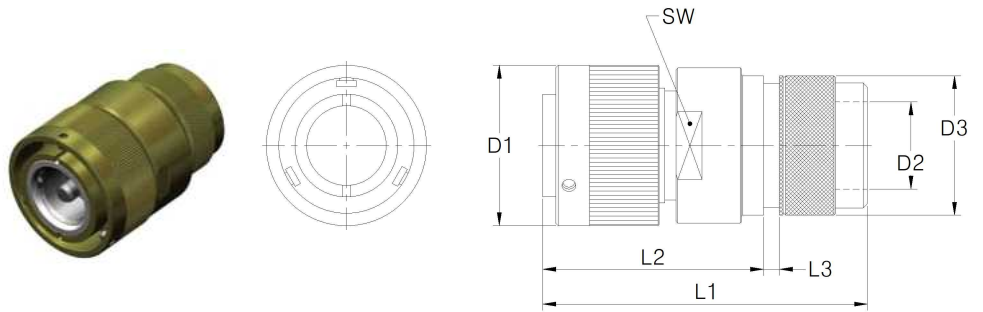
YHGE Series (VG96929 Style)

YHGE6E...B-14 / Straight Plug

VG96929 Style F

360° HG shielding by grounding fingers, Shielded endbell for heat shrink boots

YHGE6E-B-14 and Modifications,
see page 3



UNITS : mm

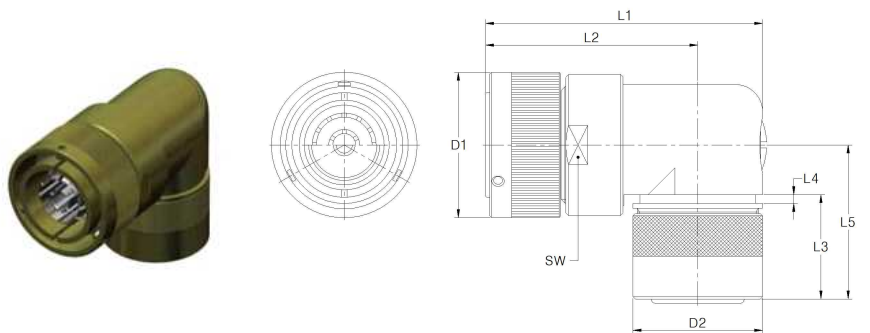
Shell size	D1 Max.	D2 Min.	D3 Max.	L1 Max.	L2 Max.	L3 ± 0.2	SW (Optional)
18	36.5	20.0	32.0	76.0	51.1	3.5	32.0
22	43.1	25.5	37.0	86.0	61.0	3.5	38.0
28	53.5	32.0	44.0	98.0	71.7	3.5	50.0
32	60.1	38.0	51.6	98.0	70.7	3.5	52.0/54.0

YHGE8E...B-03, -14 / 90° Plug

VG96929 Style E

With grounding fingers, shielded 90° adapter, for heat shrink boots
 -14 - same as VG96929 E
 -03 - Adapter for heat shrink boots

YHGE6E-B-03, -14 and Modifications,
see page 3



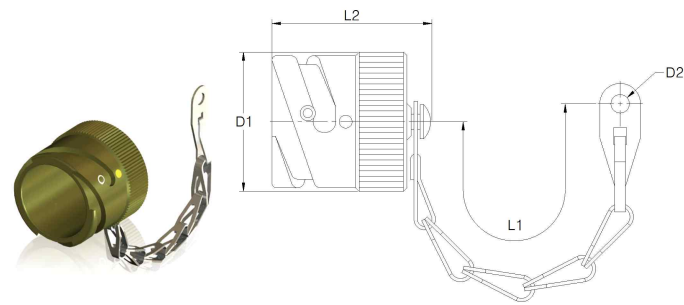
UNITS : mm

Shell	D1 Max.	D2 Max.	L1 Max.	L2 Max.	L3 Max.	L4 ± 0.2	L5 Max.	SW
28	53.5	48.0	102.0	79.0	41.5	3.2	58.0	50.0

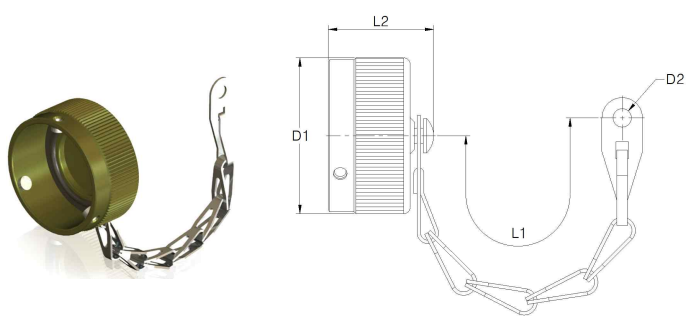
Accessories

Metal Protecting Caps With Chain

YH95234KB Style



YH95234KR Style



UNITS : mm

Part No.	D1 Max.	D2 +0.5 -0.2	L1	L2 Max.	Part No.	D1 Max.	D2 +0.5 -0.2	L1	L2 Max.
YH95234KB18	33.5	4.3	115.0	37.0	YH95234KR18	37.5	4.3	100.0	25.0
YH95234KB22	40.0	4.7	130.0	37.0	YH95234KR22	44.0	4.3	115.0	25.0
YH95234KB28	49.5	4.7	190.0	37.0	YH95234KR28	54.5	5.5	160.0	25.0
YH95234KB32	56.0	5.5	190.0	37.0	YH95234KR32	61.0	5.5	160.0	25.0

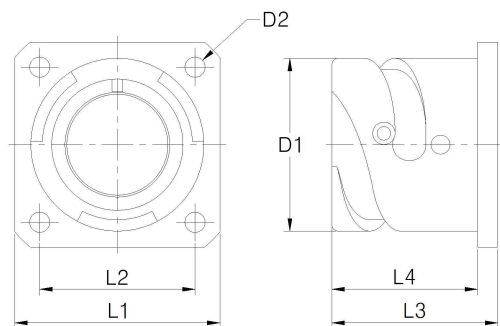
Dummy Receptacle

VG95234 Style B0D

(Flange with through holes)

YH3105-B

Front panel mounting
(rear side open)



UNITS : mm

Shell size	Part No.	D1 +0.00 -0.15	D2 ±0.2	L1 ±0.3	L2 ±0.1	L3 Max.	L4 +0.3 -0.0
18	YH3105E18-B	30.80	3.2	35.0	27.0	23.5	19.0
22	YH3105E22-B	37.40	3.2	41.0	31.8	23.5	19.0
28	YH3105E28-B	46.70	3.7	50.8	39.7	25.5	20.6
32	YH3105E32-B	53.40	4.3	57.0	44.5	27.0	22.2

