

VG95234 Connectors



● Technical Data

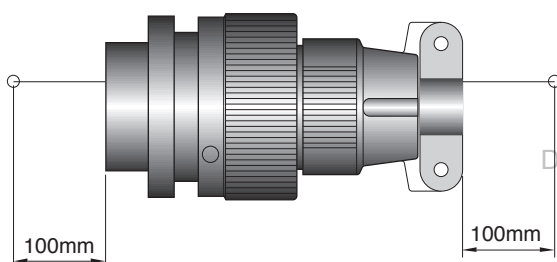
● Electrical Data

Contact Rating

Part Number		Max. Current A
Metric	AWG	
10	-	8
15/15S	16/16S	22
25	12	41
60/100	8	74
160	4	135
500	0	245

Measurement of Contact Resistance

The contact resistance has to be tested according to VG95319 Part 2, Test-No. 5. 10.1 and VG95210 part 37.



Contact Size		Contact resistance mΩ max.
Metric	AWG	
10	-	8
15/15S	16/16S	22
25	12	41
60/100	8	74
160	4	135
500	0	245

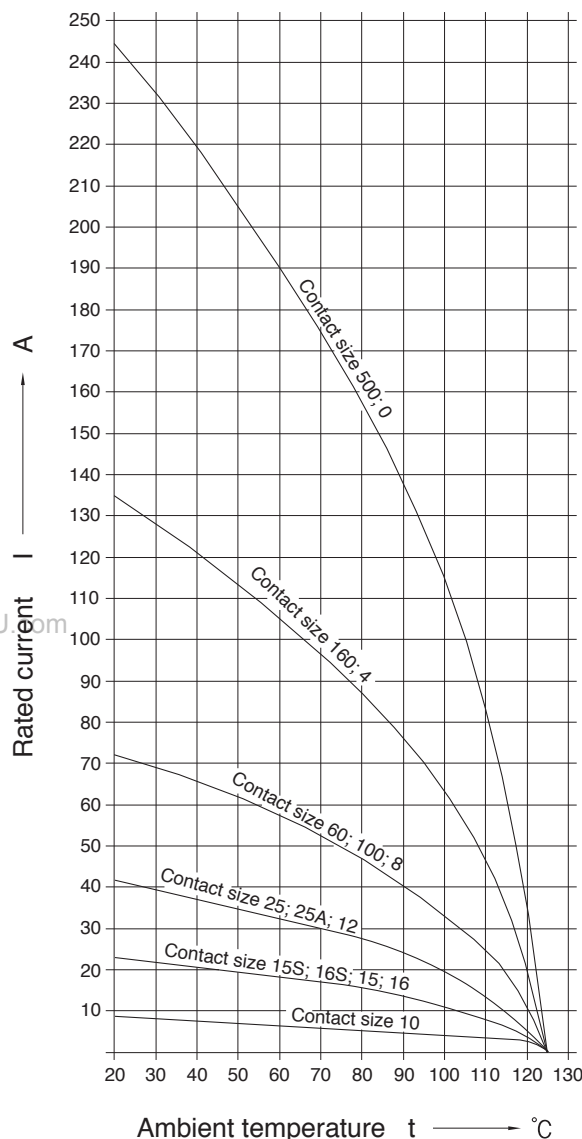
Dielectric Withstanding Voltage

According to VG95319 part 2, Test-No. 5. 13 and VG95210 part 31

Voltage class (Service Rating)	Test voltage V rms
1(Inst.)	1050
2(A)	1600
3(D)	2500
4(E)	3000

Frequency 50 Hz

Rated Current



Insulation Resistance

According to VG95319 part 2, Test-No. 5. 12 and VG 95210 part 32, Test condition B 5000 MΩ min.

Shield Connection and Shield Effect

According to VG95319 part 2, Test-No. 5. 11, test voltage however : max. DC 1.5V

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● Technical Data

● Mechanical Features

Ambient Temperature

-55°C ~ 125°C

Watertightness

IP67 According to DIN 40050

Test pressure : 1 bar overpressure

Test duration : 12 hours

Vibration Test

200 m/s² at 100 to 2000Hz

Electrical load

Current : DC or AC 100mA

Current interruption : 10μs max.

Mating Cycles

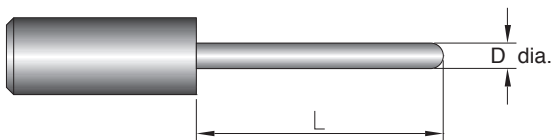
500 min.

Separating Force per Contact

The Corresponding force has to be measured according to VG95319, part 2, test no. 5.7. using the required test gage.

Contact Size		Separating N	Force min. Gage
Metric	AWG		
10	-	0.30	G 0.99
15S/15	16S/16	1.00	G 1.56
25	12	1.50	G 2.36
60/100	8	3.00	G 3.58
160	4	4.00	G 5.69
500	0	8.50	G 9.04

Gage



Gage	Contact Diameter D dia. ^{+0.01(.0004)} ₀	L ⁰ _{-1.00(.039)}
G 0.99	0.99 (.039)	7.00 (.276)
G 1.56	1.56 (.061)	9.00 (.354)
G 2.36	2.36 (.093)	12.00 (.472)
G 3.58	3.58 (.141)	13.00 (.512)
G 5.69	5.69 (.224)	13.00 (.512)
G 9.04	9.04 (.356)	13.00 (.512)

Contact Retention

The contact retention has to be tested according to VG95319, part 2, Test-No. 5. 4.

Contact Size		Test Force N
Metric	AWG	
10	-	30
15S/15	16S/16	35
25	12	55
60/100	8	80
160	4	90
500	0	95

Coupling Torque

The allowable coupling torques have to be tested under full bundle conditions of the connectors to VG95319, part 2, Test-No. 5. 8. 2.

Shell Size	Allowable Coupling Torque Closing and Opening Nm max.	Opening Nm min.
10SL	1.70	0.15
14S	3.60	0.35
16S/16	5.50	0.46
18	8.00	0.58
20	9.00	0.70
22	11.00	0.80
24	14.00	0.80
28	17.00	0.92
32	19.00	1.03
36	23.00	1.03

Coupling Torque

Shell : Aluminum alloy

Finish(standard) : Olive drab chromate coating
over cadmium plating

Insulator and Grommets : Polychloroprene

Contacts : Copper alloy

Finish(standard) : Hard silver

Finish(Special) : A176 nickel and
hard gold plating