

veam CIR Series Connectors

Contact Arrangements

Contact Legend



Standard Contact / Current Rating / Wire Size / MM²

| | | | | | | | | |
|------------------|-------|-------|-------|---------|------|------|-------|-------|
| Standard Contact | 20 | 18 | 16 | 12 | 8 | 4 | 0 | 4/0 |
| Current Rating | 7.5 A | 7.5 A | 13 A | 23 A | 46 A | 80 A | 150 A | 225 A |
| Wire Size (AWG) | 20-22 | 18-20 | 16-18 | 12-14 | 8 | 4 | 0 | 4/0 A |
| MM ² | 0.52 | 0.82 | 1.3 | 3.3-2.1 | 8.6 | 21 | 56 | 107 |

Front View of Male Insert by Insert Arrangement*

| Insert Arrangement - 1 Contacts | | | | | |
|---------------------------------|--------------------|--------------------|----------------------|--------------------|--------------------|
| 16-2 | 16-12 | 18-6 | 18-16 | 18-61 | 20-2 |
| Service Rating - E | Service Rating - A | Service Rating - D | Service Rating - C | Service Rating - D | Service Rating - D |
| | | | | | |
| | | | | Consult ITT | |
| 22-7 | 24A-1 | 32A-1 | 36A-1 | | |
| Service Rating - E | Service Rating - B | Service Rating - B | Service Rating - C | | |
| | | | | | |
| | | | with rear protection | | |
| Insert Arrangement 2 Contacts | | | | | |
| 10SL-4 ☺ | 14S-9 | 16S-4 | 16-11 | 16-13* | 16-52* |
| Service Rating - A | Service Rating - A | Service Rating - D | Service Rating - A | Service Rating - A | Service Rating - A |
| | | | | | |
| 18-3 | 18-14 | 20-23 | 22-1 | 22-8 | 22-11 |
| Service Rating - D | Service Rating - A | Service Rating - A | Service Rating - D | Service Rating - E | Service Rating - B |
| | | | | | |

☺ Insert on stock

*Drawings not to scale

* Valid only for thermocouple application



Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 2 Contacts | | | | | |
|-------------------------------|-------------------------------|--------------------|--------------------|-------------------------------------|---------------------|
| 24A-2P (FT) | 24-9 | 32A-2 | 32D-2 | 32-5 | 36A-2 |
| Service Rating 4200V DC | Service Rating - A | Service Rating - D | Service Rating - A | Service Rating - D | Service Rating - A |
| Consult ITT | | | | | |
| 40A-2 | | | | | |
| Service Rating -D | | | | | |
| | | | | | |
| Insert Arrangement 3 Contacts | | | | | |
| 10SL-3 ☺ | 10SL-55 | 14S-1 | 14S-7 ☺ | 14S-12 | 16S-5 |
| Service Rating - A | Service Rating - I | Service Rating - A | Service Rating - A | Service Rating - A 14S-7 rotated | Service Rating - A |
| | Only thermocouple version | | | | |
| 16-7 | 16-10 | 18-5 | 18-22 | 20-3 | 20-19 |
| Service Rating -A | Service Rating - A | Service Rating - A | Service Rating - D | Service Rating - D | Service Rating - A |
| | | | | | |
| 22-2 ☺ | 22-6 | 22-9 | 22-21 | 28-3 | 28P-3 |
| Service Rating -D | Service Rating - D | Service Rating -E | Service Rating - A | Service Rating - E | Service Rating - C |
| | | | | | with protection |

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Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 3 Contacts | | | | | |
|-------------------------------|-------------------------------------|--------------------|--------------------|-------------------------------------|-------------------------------------|
| 28-6 | 32A-3 | | | | |
| Service Rating - D | Service Rating - B | | | | |
| | | | | | |
| Insert Arrangement 4 Contacts | | | | | |
| 14S-2 ☺ | 14S-10 | 16-9 | 18-4 ☺ | 18-10 | 18-13 |
| Service Rating - I | Service Rating - I 14S-2 rotated | Service Rating - A | Service Rating - D | Service Rating - A | Service Rating - A |
| | | | | | |
| 20-4 | 20-24 | 22-4 | 22-22 ☺ | 24-22 | 32-17 |
| Service Rating - D | Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - D | Service Rating - D |
| | | | | | |
| 36-5 | 40D-4 | 40B-4 ☺ | | | |
| Service Rating - A | Service Rating - C | Service Rating - C | | | |
| | | | | | |
| Insert Arrangement 5 Contacts | | | | | |
| 14S-5 ☺ | 16S-8 | 18-11 ☺ | 18-20 | 18-30 | 18-31 |
| Service Rating - I | Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - A 18-20 rotated | Service Rating - A 18-20 rotated |
| | | | | | |

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Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 5 Contacts | | | | | |
|-----------------------------------|---|---|---|---|--|
| 22-12 Service Rating - D | 22-34 Service Rating - D | 24-12 Service Rating - A | 28-5 Service Rating -D | 28A-5GM Service Rating - A special for ground systems | 32-1 Service Rating - A=E; B,C,D,E=D |
| 32-2 Service Rating- E | 32A-5GM Service Rating - A special for ground systems | 32B-5GM Service Rating - A special for ground systems | 40A-3 Service Rating -E | 40A-5GM Service Rating - A special for ground systems | 40B-5 Service Rating - A |
| Insert Arrangement 6 Contacts | | | | | |
| 14S-6 ☺ Service Rating - I | 18-06 Service Rating - A | 18-12 Service Rating -A | 20-8 Service Rating - I | 20-17 Service Rating - A | 20-22 Service Rating- A |
| 22-5 Service Rating -D | 22-15 Service Rating - D=E; A,B,C,E,F=A | 24-06 Service Rating - D | 24A-6* Service Rating - D Consult ITT | 28A-6 Service Rating - A | 28-22 Service Rating- D |
| 36-3 Service Rating- D | 36-6 Service Rating - A | 36B-6 Service Rating - B | 36A-51 Service Rating - D | 36A-61 Service Rating - E | |

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Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 6 Contacts | | | | | |
|-------------------------------|---|--------------------|---|-------------------------------------|--------------------------------|
| 36B-61 | 40A-4 | | | | |
| Service Rating - E | Service Rating - A | | | | |
| | | | | | |
| Insert Arrangement 7 Contacts | | | | | |
| 14SA-7 | 16S-1 ☺ | 18-9 | 18-17 | 20A-7 | 20-15 |
| Service Rating - I | Service Rating - A | Service Rating - I | Service Rating - I 18-9 rotated | Service Rating - D | Service Rating - A |
| | | | | | |
| 22-28 | 24-2 (GM) | 24-10 ☺ | 24-27 | 24A-7 | 28A-7 |
| Service Rating - A | Service Rating - D | Service Rating - A | Service Rating - E | Service Rating - D | Service Rating - A |
| | special for ground system | | | | |
| 28B-7 | 28-10 | 32A-7 | 36-77 | 40A-7 | |
| Service Rating - A | Service Rating - G=D; BAL.=A | Service Rating - D | Service Rating - D | Service Rating - A | |
| | | | | | |
| Insert Arrangement 8 Contacts | | | | | |
| 18-8 ☺ | 20-7 | 20A-8 ☺ | 22-18 | 24-6 (HM) | 22-23 |
| Service Rating - A | Service Rating - A,B,H, G=N, C,D,F F=A | Service Rating - I | Service Rating - A,B,F,G, H=D; C,D,E=A | Service Rating - A,G,H=D; BAL.=A | Service Rating- H=D; BAL.=A |
| | | | | special for ground system | |

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Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 8 Contacts | | | | | |
|--|---|------------------------|---|---|---------------------------------|
| 24A-8 (FT) | 32-15 | 32A-8 | 40A-8 | 40A-10 | |
| Service Rating - HV=15KV | Service Rating - D | Service Rating - A | Service Rating - E | Service Rating - D | |
| Insert Arrangement 9 Contacts | | | | | |
| 20-16 | 20-18 | 20-21 | 20A-9 | 22A-9 | 22-17 |
| Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - J=D; BAL.=A | Service Rating - 1,2,3=D; BAL.=A | Service Rating - A=D;BAL.=A |
| 24-11 (EM) | 28-1 | 28A-9 | | | |
| Service Rating - A <small>special for ground system</small> | Service Rating - A,J,E=D; BAL.=A | Service Rating - A | | | |
| Insert Arrangement 10 Contacts | | | | | |
| 16A-10 | 18-1 ☺ | 18-19 | 18-24 | 22A-10 | 22B-10 |
| Service Rating - A | Service Rating - B,C,F,G=A; BAL.=I | Service Rating - A | Service Rating - B,C,F,G=A; BAL.=I 18-1 rotated | Service Rating - A | Service Rating - A |
| 24-21 | 28-19 | 28A-10 | 36A-10 | 36B-10 | |
| Service Rating - D | Service Rating - H,M=B; Δ R=N-RAI =A | Service Rating - D | Service Rating - A | Service Rating - A | |

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Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 11 Contacts | | | | | |
|--------------------------------|-------------------------------------|---|--------------------|--------------------|--------------------|
| 20-33 ☺ | 20A-11 | 24A-11 | 24-20 | | |
| Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - D | | |
| | | | | | |
| Insert Arrangement 12 Contacts | | | | | |
| 24-19 | 28-9 | 28-18 | 28-51 | 36A-12 | 36B-12 |
| Service Rating - A | Service Rating - D | Service Rating - M = C; G, H, J, K, L = D A, B = A; BAL = I | Service Rating - D | Service Rating - A | Service Rating - D |
| | | | | | |
| Insert Arrangement 13 Contacts | | | | | |
| 20-11 | 20-25 | 20-30 | 24-013 | 32A-13 ☺ | |
| Service Rating - I | Service Rating - I 20-11 rotated | Service Rating - I 20-11 rotated | Service Rating - A | Service Rating - D | |
| | | | | | |
| Insert Arrangement 14 Contacts | | | | | |
| 20-27 ☺ | 22-19 ☺ | 28-2 | 28A-14 | 28-20 | 32-9 |
| Service Rating - A | Service Rating - A | Service Rating - D | Service Rating - D | Service Rating - A | Service Rating - D |
| | | | | | |
| 36-78 | 36B-78 | 36D-78 | 40A-14 | | |
| Service Rating - D | Service Rating - D | Service Rating - D | Service Rating - A | | |
| | | | | | |

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Contact Legend



Front View of Male Insert by Insert Arrangement*

| | | | | | | |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| Insert Arrangement 15 Contacts 28-17 Service Rating -R=B;M,N,P=D ; BAL.=A | | | | | | |
| Insert Arrangement 16 Contacts | | | | | | |
| 22A-16 | 24-5 | 24-7 | 28A-16 | 32-68 | | |
| Service Rating - I | Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - A | | |
| | | | | | | |
| Insert Arrangement 17 Contacts | | | | | | |
| 20-29 | 28-59 | | | | | |
| Service Rating - A | Service Rating - A | | | | | |
| | | | | | | |
| Insert Arrangement 19 Contacts | | | | | | |
| 20A-48 ☺ | 22-14 ☺ | 24-67 ☺ | 32-76 | 40-19 | 40A-19 | |
| Service Rating - I | Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - A | |
| | | | | | | |
| 40B-19 Service Rating - A | | | | | | |

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Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 20 Contacts | | Insert Arrangement 21 Contacts | | |
|--------------------------------|--------------------|--------------------------------|--------------------|--------------------|
| 28-16 | 40A-20 | 40A-21 | | |
| Service Rating - A | Service Rating - D | Service Rating - 21=D;BAL.=A | | |
| | | | | |
| Insert Arrangement 22 Contacts | | | | |
| 28-11 | 32A-22 | 32B-22 | 36A-22 | |
| Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - D | |
| | | | | |
| Insert Arrangement 23 Contacts | | Insert Arrangement 24 Contacts | | |
| 32-6 | 32-13 | 32-16 | 24-28 ☺ | 40A-24 |
| Service Rating - A | Service Rating - D | Service Rating - A | Service Rating - I | Service Rating - D |
| | | 32-16 rotated 100° | | |
| Insert Arrangement 25 Contacts | | | | |
| 24A-25 | 32A-25 | 40A-25 | | |
| Service Rating - I | Service Rating - A | Service Rating - A | | |
| | | | | |
| Insert Arrangement 26 Contacts | | | | |
| 28-12 ☺ | 28-13 | | | |
| Service Rating - A | Service Rating - A | | | |
| | 28-13 100° | | | |

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Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 27 Contacts | | Insert Arrangement 28 Contacts | | |
|--------------------------------|--------------------|--------------------------------|--------------------|--------------------|
| 32A-27 | 40A-27 | 24A-28 | ☺ | |
| Service Rating - A | Service Rating - A | Service Rating - I | | |
| | | | | |
| Insert Arrangement 29 Contacts | | | | |
| 40-10 | | | | |
| Service Rating - A | | | | |
| | | | | |
| Insert Arrangement 30 Contacts | | | | |
| 32-8 | 32A-30 | 40A-30 | | |
| Service Rating - A | Service Rating - A | Service Rating - A | | |
| | | | | |
| Insert Arrangement 31 Contacts | | | | |
| 28A-31 | 32-31 | 32A-31 | 36-9 | 36-18 |
| Service Rating - I | Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - A |
| | | | | |
| | | | | 36-9 rotated |
| Insert Arrangement 31 Contacts | | Insert Arrangement 34 Contacts | | |
| 40A-31 | | 40A-34 | | |
| Service Rating - D | | Service Rating - I | | |
| | | | | |

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Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 35 Contacts | | | | | |
|--------------------------------|---------------------|---------------------------------|--|-----------------------------------|--------------------|
| 28-15 | 28A-35 | 28B-35 | 32-7 | 36-15 | 40A-35 |
| Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - A, B, h, j = I; BAL = A | Service Rating - A M = D; BAL = A | Service Rating - D |
| | | | | | |
| Insert Arrangement 37 Contacts | | | Insert Arrangement 38 Contacts | | |
| 22A-37 | 28-21 | 40B-37 | 40D-37 | 40A-38 | |
| Service Rating - A | Service Rating - A | Service Rating - A | Service Rating - A with protect | Service Rating - A | |
| | | | | | |
| Insert Arrangement 39 Contacts | | Insert Arrangement 40 Contacts | | Insert Arrangement 42 Contacts | |
| 36-54 | | 32A-40 | | 32-59 | |
| Service Rating - A | | Service Rating - A | | Service Rating - A | |
| | | | | | |
| Insert Arrangement 44 Contacts | | | | | |
| 36-74 | | | | | |
| Service Rating - A | | | | | |
| | | | | | |
| Insert Arrangement 47 Contacts | | | | | |
| 36-7 | 36-8 | 36-16 | 36-17 | 40-9 | 40A-47 |
| Service Rating - AS | Service Rating - AS | Service Rating - A 36-7 rotated | Service Rating - A 36-7 rotated | Service Rating - AS | Service Rating - A |
| | | | | | |

☺ Insert on stock *Drawings not to scale



Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 48 Contacts | | | | |
|--------------------------------|--------------------|-------------------------------------|--|---------------------------------|
| 32A-48 ☺ | 36-10 ☺ | 36-11 | 36-12 | 36A-48 |
| Service Rating - I | Service Rating - A | Service Rating - A 36-10 rotated | Service Rating - A 36-10 rotated Contact ITT for drawing | Service Rating - I |
| | | | | |
| Insert Arrangement 54 Contacts | | Insert Arrangement 55 Contacts | | |
| 32-22 | | 24A-55 | 32A-55 ☺ | |
| Service Rating - A | | Service Rating - I | Service Rating - A | |
| | | | | |
| Insert Arrangement Contacts 56 | | Insert Arrangement 60 Contacts | | |
| 36-66 | | 40A-60 | | |
| Service Rating - A | | Service Rating - A | | |
| | | | | |
| Insert Arrangement Contacts 61 | | Insert Arrangement Contacts 62 | | Insert Arrangement Contacts 72 |
| 40-63 ☺ | 40A-62A ☺ | 28-72 | | |
| Service Rating - A | Service Rating - A | Service Rating - I | | |
| | | | | |
| Insert Arrangement Contacts 85 | | Insert Arrangement Contacts 100 | | Insert Arrangement Contacts 101 |
| 40-56 ☺ | 40A-56 | 40A-100 | 32-101 | |
| Service Rating - A | Service Rating - A | Service Rating - A, contact size 18 | Service Rating - I, contact size 20 | |
| | | | | |

☺ Insert on stock *Drawings not to scale



Contact Legend



Front View of Male Insert by Insert Arrangement*

| Insert Arrangement 130 Contacts | Insert Arrangement 150 Contacts | Insert Arrangement 159 Contacts |
|---|-------------------------------------|-------------------------------------|
| 40A-130 | 40A-150 | 40T-159 |
| Service Rating - I, 4 contacts size 12, 12 contacts size 16, 114 contacts size 18 | Service Rating - I, contact size 18 | Service Rating - A, contact size 20 |
| | | |

