

C2KX Marine Cable Connector

Wire Braid Armor and Jacketed Cables.

NEC/CEC:

Class I, Division 2 ①, Groups A, B, C, D
Class I, Zone 1, AEx e II, AEx nR II
Class I, Zone 2, AEx e II
NEMA 4X
IP66, IP67, IP68

ATEX/IECEX:

Ⓢ II 2 GD, II ID, EX e IIC Gb, Ex ta IIIC Da
Ex e II
Ex tD A21 IP66
Ⓢ II 3 G Ex nR IIC Gc

Appleton

HAZARDOUS LOCATION FITTINGS: NEC/CEC EXPLOSIONPROOF AND ATEX/IECEX FLAMEPROOF CABLE GLANDS

Applications

- Cable connector for armor braid shipboard cable and all IEC braid cables is suitable for ordinary and wet locations and provides mechanical retention and electrical continuity via a removable armor termination.

Features

- Connector provides an environmental seal on the cable outer jacket and is UL Listed for NPT or Metric entry threads.
- The C2KX forms part of a comprehensive range of deluge proof connectors for marine shipboard and IEE45 armor jacketed cables.
- Permitted for use in Division 2 areas on equipment without internal source of ignition (i.e. no arcing or sparking devices).
- Armor termination — removable armor cone and ring.
- Sealing technique — Displacement seal concept. Sealing area — Outer sheath.

Standard Materials

- Connector: brass fully nickel plated
- Seal: SOLO LSF (low smoke fumes) thermoplastic elastomer

Options

- Brass with nickel plated threaded entry: replace last digit 5 with 7
- Aluminum: replace last digit 5 with 1
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see *Cable Gland Accessories* pages.

NEC/CEC Certifications and Compliances

- UL Standard: 514B
- UL Listed: E200163, E256367
- CSA Standard: C22.2 No. 0.18,3,94.1,94.2, CAN/CSA E60079-0,7, CAN/CSA C22.2 No. 60529:05
- CSA Certified: 101909

| Cable Connector Size | Metric Thread C | Standard Metric ② | Catalog Numbers | | | | Minimum Thread Length mm (in) E | |
|----------------------|-----------------|-------------------|-----------------------|----------------|-----------------------|-----------------------|---------------------------------|--------------|
| | | | Standard NPT Thread C | Standard NPT ② | Optional NPT Thread C | Optional NPT Thread ② | NPT | Metric |
| 20S/16 | M20 | 2016C2KX5 | 1/2 | 2016C2KX0505 | 3/4 | 2016C2KX0755 | 20.19 (0.79) | 15.01 (0.59) |
| 20S | M20 | 20SC2KX5 | 1/2 | 20SC2KX0505 | 3/4 | 20SC2KX0755 | 20.19 (0.79) | 15.01 (0.59) |
| 20 | M20 | 20C2KX5 | 1/2 | 20C2KX0505 | 3/4 | 20C2KX0755 | 20.19 (0.79) | 15.01 (0.59) |
| 25 | M25 | 25C2KX5 | 3/4 | 25C2KX0755 | 1 | 25C2KX1005 | 20.50 (0.81) | 15.01 (0.59) |
| 32 | M32 | 32C2KX5 | 1 | 32C2KX1005 | 1-1/4 | 32C2KX1255 | 24.54 (0.97) | 15.01 (0.59) |
| 40 | M40 | 40C2KX5 | 1-1/4 | 40C2KX1255 | 1-1/2 | 40C2KX1505 | 25.91 (1.02) | 15.01 (0.59) |
| 50S | M50 | 50SC2KX5 | 1-1/2 | 50SC2KX1505 | 2 | 50SC2KX2005 | 26.39 (1.04) | 15.01 (0.59) |
| 50 | M50 | 50C2KX5 | 2 | 50C2KX2005 | 2-1/2 | 50C2KX2505 | 27.20 (1.07) | 15.01 (0.59) |
| 63S | M63 | 63SC2KX5 | 2 | 63SC2KX2005 | 2-1/2 | 63SC2KX2505 | 27.20 (1.07) | 15.01 (0.59) |
| 63 | M63 | 63C2KX5 | 2-1/2 | 63C2KX2505 | 3 | 63C2KX3005 | 40.21 (1.58) | 15.01 (0.59) |
| 75S | M75 | 75SC2KX5 | 2-1/2 | 75SC2KX2505 | 3 | 75SC2KX3005 | 40.21 (1.58) | 15.01 (0.59) |
| 75 | M75 | 75C2KX5 | 3 | 75C2KX3005 | 3-1/2 | 75C2KX3505 | 41.81 (1.65) | 15.01 (0.59) |
| 90 | M90 | 90C2KX5 | 3-1/2 | 90C2KX3505 | 4 | 90C2KX4005 | 41.81 (1.65) | 24.13 (0.95) |
| 100 ③ | M100 | 100C2KX5 | 4 | 100C2KX4005 | 5 | 100C2KX5005 | 44.30 (1.74) | 24.13 (0.95) |

① When installed in accordance with the National Electrical Code.

② Entry thread seal not supplied, see *Cable Gland Accessories and Tools*.

③ Not UL Listed or CSA Certified.

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ATEX/IECEX:

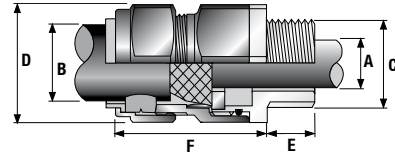
ⓧ II 2 GD, II ID, EX e IIC Gb, Ex ta IIIC Da
 Ex e II
 Ex tD A21 IP66
 ⓧ II 3 G Ex nR IIC Gc

ATEX/IECEX Certifications and Compliances

- EN/IEC Standards: 60079-0; 60079-1; 60079-7; 60079-15; 60079-31
- Oil Resistant II
- Marine: LLOYDS, DNV, ABS
- Shell / ERA deluge test DTS 01:1991 (after 20 years simulated accelerated aging)



Dimensions in Millimeters (Inches)



| Cable Connector Size | Maximum Cable Bedding Diameter mm (in) A | Overall Cable Diameter mm (in) B | | Across Flats mm (in) D | Across Corners mm (in) D | Nominal Protrusion Length mm (in) F | Optional PVC Shroud | Cable Connector Weight kgs (oz) |
|----------------------|--|----------------------------------|---------------|------------------------|--------------------------|-------------------------------------|---------------------|---------------------------------|
| | | Min | Max | | | | | |
| 20S/16 | 8.71 (0.34) | 6.10 (0.24) | 13.21 (0.52) | 24.00 (0.94) | 26.42 (1.04) | 48.01 (1.89) | PVC06 | 0.13 (4.66) |
| 20S | 11.71 (0.46) | 9.50 (0.37) | 15.90 (0.63) | 24.00 (0.94) | 26.42 (1.04) | 48.01 (1.89) | PVC06 | 0.13 (4.66) |
| 20 | 14.00 (0.55) | 12.50 (0.49) | 20.90 (0.82) | 30.51 (1.20) | 33.58 (1.32) | 48.01 (1.89) | PVC06 | 0.19 (6.84) |
| 25 | 19.99 (0.79) | 18.21 (0.72) | 26.19 (1.03) | 37.49 (1.48) | 41.25 (1.62) | 56.13 (2.21) | PVC09 | 0.31 (10.79) |
| 32 | 26.29 (1.04) | 23.70 (0.93) | 33.91 (1.34) | 46.00 (1.81) | 50.62 (1.99) | 54.10 (2.13) | PVC09 | 0.31 (10.79) |
| 40 | 32.21 (1.27) | 27.89 (1.10) | 40.41 (1.59) | 54.99 (2.16) | 60.50 (2.38) | 57.91 (2.28) | PVC11 | 0.47 (16.51) |
| 50S | 38.20 (1.50) | 35.20 (1.39) | 46.71 (1.84) | 59.99 (2.36) | 66.01 (2.60) | 60.96 (2.40) | PVC15 | 0.68 (23.92) |
| 50 | 44.09 (1.74) | 40.41 (1.59) | 53.11 (2.09) | 70.00 (2.76) | 77.01 (3.03) | 59.94 (2.36) | PVC18 | 0.75 (26.46) |
| 63S | 50.01 (1.97) | 45.59 (1.79) | 59.41 (2.34) | 75.01 (2.95) | 82.52 (3.25) | 73.91 (2.91) | PVC21 | 1.04 (36.83) |
| 63 | 56.01 (2.21) | 54.61 (2.15) | 65.89 (2.59) | 80.01 (3.15) | 88.01 (3.46) | 71.12 (2.80) | PVC23 | 1.07 (37.88) |
| 75S | 62.00 (2.44) | 59.00 (2.32) | 72.11 (2.84) | 89.00 (3.50) | 97.92 (3.86) | 86.11 (3.39) | PVC25 | 1.28 (45.15) |
| 75 | 68.00 (2.68) | 66.70 (2.63) | 78.51 (3.09) | 99.01 (3.90) | 108.92 (4.29) | 82.04 (3.23) | PVC28 | 1.86 (65.61) |
| 90 | 80.01 (3.15) | 76.20 (3.00) | 90.40 (3.56) | 114.0 (4.49) | 125.40 (4.94) | 95.00 (3.74) | PVC30 | 2.55 (89.95) |
| 100 ^② | 91.01 (3.58) | 86.11 (3.39) | 101.50 (4.00) | 123.01 (4.84) | 135.31 (5.33) | 95.00 (3.74) | PVC32 | 3.65 (128.75) |

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