

CJ 3A20 SERIES

INSULATE
SEAL
PROTECT

HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ 3A20 SERIES JOINTS ARE THREE CORE ARMoured, 5 kV TO 35 kV HEAT SHRINK JOINTS FOR XLPE AND EPR EXTRUDED DIELECTRIC, METAL TAPE AND WIRE SHIELDED POWER CABLES. THE CJ 3A20 SERIES JOINTS ARE SUPPLIED WITH THREE SINGLE CORE JOINTS, A GALVANIZED STEEL WRAPAROUND ARMOURING SYSTEM AND A RAILED WRAPAROUND SLEEVE WITH STAINLESS STEEL CHANNELS TO FORM THE OUTER JACKET

FEATURES AND BENEFITS

- Fast, consistent installation means lower installed costs
- Installation environment: use of torch adds flexibility to cable preparation in any climate
- Heat activated seal ensures maximum protection against moisture ingress
- Custom tailored with options to your exacting needs
- Lightweight construction requires no additional support
- Wide cable ranges for reduced inventory requirements
- Tough abrasion resistant outer covering protects against damage from improper backfill
- Slim profile allows installation in confined areas

STANDARDS

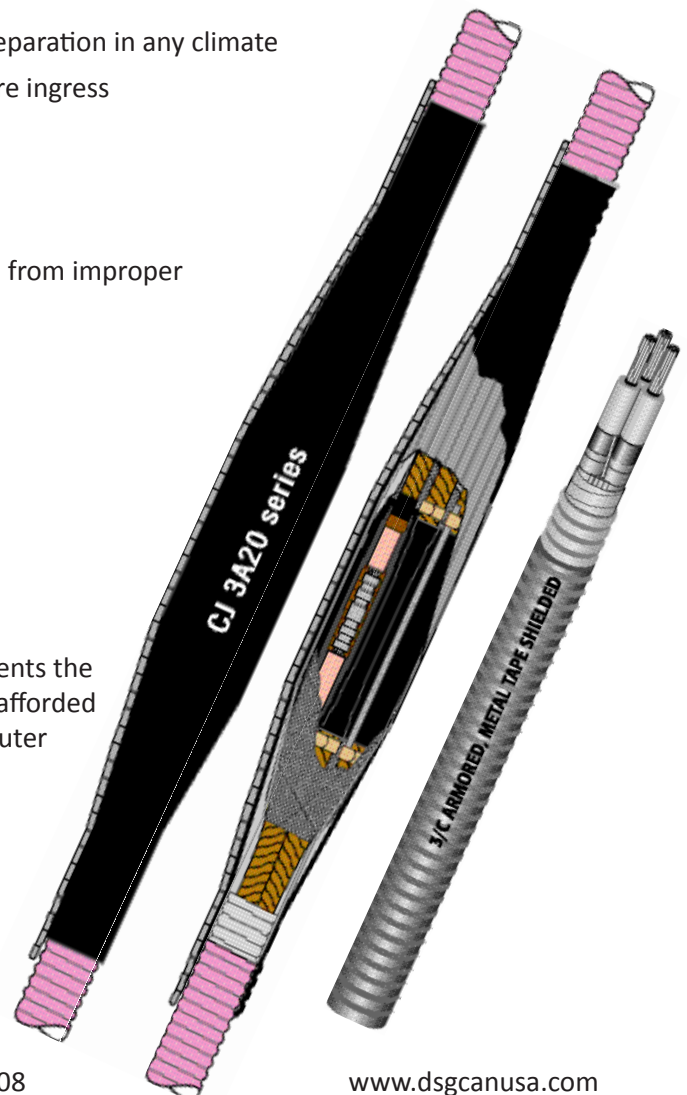
- Rated to IEEE 404-2000

TESTS REPORTS

The CJ 3A20 series joints were design tested to IEEE 404-2000 at an independent laboratory as single core unjacketed joints. This represents the worst case condition as the joints submerged under water were not afforded the added protection of the CJ 3A20 series joints with wraparound outer jackets.

Test reports are available as follows:

- CJ 3A820 series: HVS020079
- CJ 3A1520 series: HVS020080
- CJ 3A2520 series: HVS020081 and HVS020083



CJ 3A20 SERIES

HEAT SHRINK MEDIUM VOLTAGE

DIMENSIONS

| ORDER NUMBER | CONDUCTOR SIZE RANGE | INSULATION O.D. RANGE | | JACKET O.D. MINIMUM | | CONNECTOR DIMENSIONS | | | | NOMINAL KIT INSTALLED LENGTH | |
|-----------------------------|----------------------|-----------------------|---------|---------------------|----|----------------------|----|----------------|-----|------------------------------|------|
| | | | | | | MAXIMUM O.D. | | MAXIMUM LENGTH | | | |
| | | IN | MM | IN | MM | IN | MM | IN | MM | IN | MM |
| 5 kV (90 - 110 MILS) | | | | | | | | | | | |
| CJ 3A821 | #8 - 2/0 AWG | 0.35 - 0.65 | 9 - 17 | 0.90 | 23 | 0.50 | 13 | 3.00 | 76 | 48.0 | 1220 |
| CJ 3A822 | 3/0 - 300 kcmil | 0.55 - 0.90 | 14 - 23 | 1.30 | 33 | 0.75 | 19 | 4.25 | 108 | 55.0 | 1397 |
| CJ 3A823 | 350 - 750 kcmil | 0.80 - 1.15 | 20 - 30 | 1.57 | 40 | 1.10 | 28 | 6.00 | 152 | 55.0 | 1397 |
| CJ 3A824 | 1000 - 1500 kcmil | 1.00 - 1.60 | 25 - 41 | 2.40 | 61 | 1.45 | 37 | 8.00 | 203 | 72.0 | 1829 |
| 8 kV (115 MILS) | | | | | | | | | | | |
| CJ 3A821 | #6 - #2 AWG | 0.35 - 0.65 | 9 - 17 | 0.90 | 23 | 0.50 | 13 | 3.00 | 76 | 40.0 | 1015 |
| CJ 3A822 | #1 - 4/0 AWG | 0.55 - 0.90 | 14 - 23 | 1.30 | 33 | 0.75 | 19 | 4.25 | 108 | 55.0 | 1397 |
| CJ 3A823 | 250 - 350 kcmil | 0.80 - 1.25 | 20 - 32 | 1.57 | 40 | 1.10 | 28 | 6.00 | 152 | 55.0 | 1397 |
| CJ 3A824 | 500 - 750 kcmil | 1.00 - 1.60 | 25 - 41 | 2.40 | 61 | 1.45 | 37 | 8.00 | 203 | 72.0 | 1829 |
| CJ 3A825 | 750 - 1000 kcmil | 1.30 - 2.10 | 33 - 53 | 2.40 | 61 | 1.85 | 47 | 8.00 | 203 | 72.0 | 1829 |
| 15 kV (175 - 220 MILS) | | | | | | | | | | | |
| CJ 3A1521 | #4 - 4/0 AWG | 0.60 - 1.05 | 15 - 27 | 1.57 | 40 | 1.05 | 26 | 4.25 | 108 | 60.0 | 1525 |
| CJ 3A1522 | 4/0 - 500 kcmil | 0.80 - 1.25 | 20 - 32 | 2.40 | 61 | 1.25 | 32 | 5.50 | 140 | 60.0 | 1525 |
| CJ 3A1523 | 400 - 750 kcmil | 1.05 - 1.60 | 27 - 41 | 2.40 | 61 | 1.75 | 44 | 8.00 | 203 | 72.0 | 1829 |
| CJ 3A1524 | 750 - 1750 kcmil | 1.30 - 2.15 | 33 - 55 | 2.40 | 61 | 2.15 | 55 | 8.00 | 203 | 72.0 | 1829 |
| 25 - 28 kV (260 - 280 MILS) | | | | | | | | | | | |
| CJ 3A2521 | #1 - 250 kcmil | 0.80 - 1.25 | 20 - 32 | 1.65 | 42 | 1.10 | 28 | 4.00 | 102 | 60.0 | 1525 |
| CJ 3A2522 | 4/0 - 500 kcmil | 1.05 - 1.55 | 27 - 39 | 2.40 | 61 | 1.30 | 33 | 6.00 | 152 | 72.0 | 1829 |
| CJ 3A2523 | 600 - 1000 kcmil | 1.40 - 1.85 | 33 - 47 | 2.40 | 61 | 1.85 | 47 | 8.00 | 203 | 84.0 | 2134 |
| 35 kV (345 MILS) | | | | | | | | | | | |
| CJ 3A3521 | 1/0 - 250 kcmil | 0.95 - 1.35 | 24 - 34 | 2.40 | 61 | 1.00 | 25 | 5.00 | 127 | 72.0 | 1829 |
| CJ 3A3522 | 250 - 600 kcmil | 1.30 - 1.75 | 33 - 44 | 2.40 | 61 | 1.50 | 38 | 8.00 | 203 | 84.0 | 2134 |
| CJ 3A3523 | 600 - 1000 kcmil | 1.55 - 2.15 | 39 - 55 | 2.40 | 61 | 1.85 | 47 | 10.00 | 254 | 84.0 | 2134 |

ORDERING

- Find the cable's voltage class and conductor size(s) to be spliced. Select the kit part number that covers the conductor size range.
- Confirm the dimensional data particularly when the conductor size is at the extremes of the range. The overlap in size ranges allows for size transitions when splicing different cable sizes. The determining factors for selection are that the minimum and maximum dimensions for the primary insulation and connector dimensions are met and that the jacket diameter maximum is not exceeded.
- A cable preparation/cleaning kit can be included with the kit by adding the suffix "P" to the end of the part number. FOR EXAMPLE: CJ 3A1522P.

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