# CJ 320 Series

DSG-Canusa
A ShawCor Company

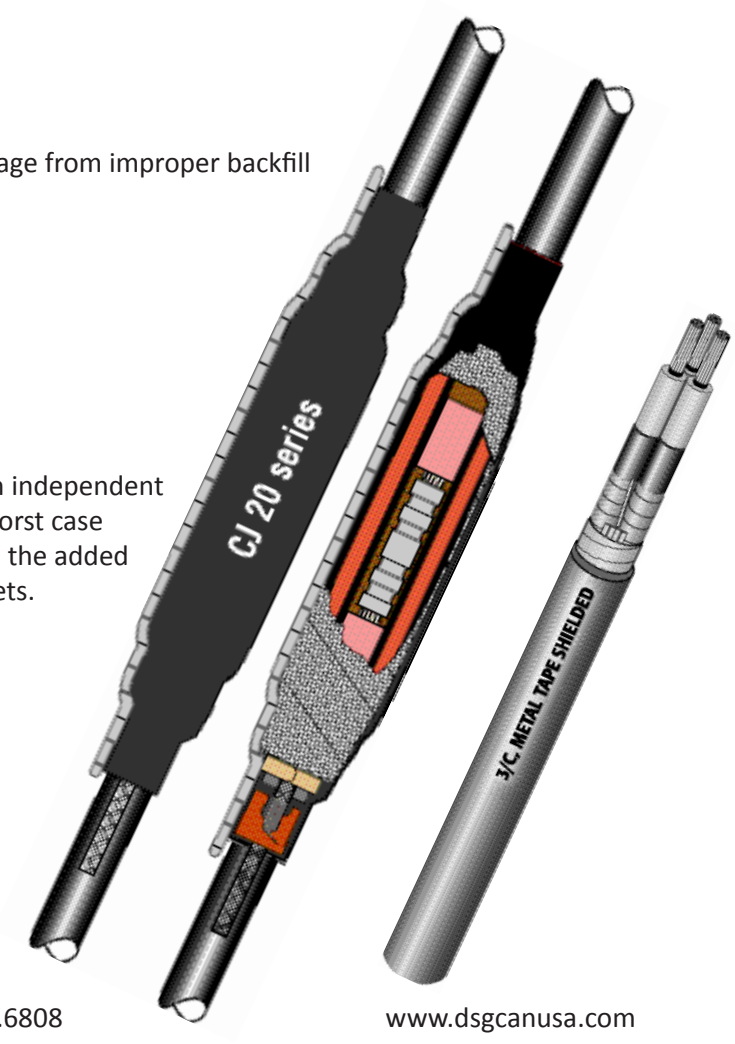
Insulate
Seal
Protect

## Heat Shrink Medium Voltage Joints

CJ 320 series joints are three core, 5 kV to 35 kV heat shrink joints for XLPE and EPR extruded dielectric, metal tape and wire shielded power cables. The CJ 320 series joints are supplied with three single core joints plus a railed wraparound sleeve with stainless steel channels to form a tube

## 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 320 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 320 series joints with wraparound outer jackets.

Test reports are available as follows:

- CJ 3820 series: HVS020079
- CJ 31520 series: HVS020080
- CJ 32520 series: HVS020081 and HVS020083
- CJ 33520 series: HVS020082

## Heat Shrink Medium Voltage

# CJ 320 Series

## 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 3821 | #8 - 2/0 AWG | 0.35 - 0.65 | 9 - 17 | 0.90 | 23 | 0.50 | 13 | 3.00 | 76 | 40.0 | 1015 |
| CJ 3822 | 3/0 - 300 kcmil | 0.55 - 0.90 | 14 - 23 | 1.30 | 33 | 0.75 | 19 | 4.25 | 108 | 48.0 | 1220 |
| CJ 3823 | 350 - 750 kcmil | 0.80 - 1.15 | 20 - 30 | 1.57 | 40 | 1.10 | 28 | 6.00 | 152 | 48.0 | 1220 |
| CJ 3824 | 1000 - 1500 kcmil | 1.00 - 1.60 | 25 - 41 | 2.40 | 61 | 1.45 | 37 | 8.00 | 203 | 60.0 | 1525 |
| 8 kV (115 mils) | | | | | | | | | | | |
| CJ 3821 | #6 - #2 AWG | 0.35 - 0.65 | 9 - 17 | 0.90 | 23 | 0.50 | 13 | 3.00 | 76 | 40.0 | 1015 |
| CJ 3822 | #1 - 4/0 AWG | 0.55 - 0.90 | 14 - 23 | 1.30 | 33 | 0.75 | 19 | 4.25 | 108 | 48.0 | 1220 |
| CJ 3823 | 250 - 350 kcmil | 0.80 - 1.25 | 20 - 32 | 1.57 | 40 | 1.10 | 28 | 6.00 | 152 | 48.0 | 1220 |
| CJ 3824 | 500 - 750 kcmil | 1.00 - 1.60 | 25 - 41 | 2.40 | 61 | 1.45 | 37 | 8.00 | 203 | 60.0 | 1525 |
| CJ 3825 | 750 - 1000 kcmil | 1.30 - 2.10 | 33 - 53 | 2.40 | 61 | 1.85 | 47 | 8.00 | 203 | 60.0 | 1525 |
| 15 kV (175 - 220 mils) | | | | | | | | | | | |
| CJ 31521 | #4 - 4/0 AWG | 0.60 - 1.05 | 15 - 27 | 1.57 | 40 | 1.05 | 26 | 4.25 | 108 | 60.0 | 1525 |
| CJ 31522 | 4/0 - 500 kcmil | 0.80 - 1.25 | 20 - 32 | 2.40 | 61 | 1.25 | 32 | 5.50 | 140 | 60.0 | 1525 |
| CJ 31523 | 400 - 750 kcmil | 1.05 - 1.60 | 27 - 41 | 2.40 | 61 | 1.75 | 44 | 8.00 | 203 | 72.0 | 1829 |
| CJ 31524 | 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 32521 | #1 - 250 kcmil | 0.80 - 1.25 | 20 - 32 | 1.65 | 42 | 1.10 | 28 | 4.00 | 102 | 60.0 | 1525 |
| CJ 32522 | 250 - 600 kcmil | 1.05 - 1.55 | 27 - 39 | 2.40 | 61 | 1.30 | 33 | 6.00 | 152 | 72.0 | 1829 |
| CJ 32523 | 600 - 1000 kcmil | 1.40 - 1.85 | 33 - 47 | 2.40 | 61 | 1.85 | 47 | 8.00 | 203 | 72.0 | 1829 |
| 35 kV (345 mils) | | | | | | | | | | | |
| CJ 33521 | 1/0 - 250 kcmil | 0.95 - 1.35 | 24 - 34 | 2.40 | 61 | 1.00 | 25 | 5.00 | 127 | 72.0 | 1829 |
| CJ 33522 | 250 - 600 kcmil | 1.30 - 1.75 | 33 - 44 | 2.40 | 61 | 1.50 | 38 | 8.00 | 203 | 72.0 | 1829 |
| CJ 33523 | 600 - 1000 kcmil | 1.55 - 2.15 | 39 - 55 | 2.40 | 61 | 1.85 | 47 | 10.00 | 254 | 72.0 | 1829 |

## 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 the dimension ranges for the primary insulation and connector dimensions, and the jacket diameter.
- 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 31522P.