

# CJ R10 SERIES

INSULATE  
SEAL  
PROTECT

## HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ R10 SERIES JOINTS ARE SINGLE CORE, 15 kV TO 35 kV, HEAT SHRINK REPAIR JOINTS FOR BARE AND JACKETED CONCENTRIC CENTRAL CABLE. THEY ARE DESIGNED TO REPAIR FAULTED CABLES OR JOINTS BY REPLACING THE DAMAGED AREA WITH A LONGER MAKE-UP CONNECTION. THE CJ 10J SERIES JOINTS USE THE SAME JOINT COMPONENTS AS THE CJ R10 JOINTS BUT ARE SUPPLIED WITH A WRAPAROUND JACKETING SLEEVE TO SEAL FROM CABLE JACKET TO CABLE JACKET ON JACKETED CONCENTRIC NEUTRAL CABLES

## 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

## TEST REPORTS

The CJ 10 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 R10J series joints with jackets.

Test reports are available as follows:

- CJ 1510 series: HVSO20080
- CJ 2510 series: HVSO20081 and HVSO 20083
- CJ 3510 series: HVSO20082



## DIMENSIONS

ORDER NUMBER	CONDUCTOR SIZE RANGE	INSULATION O.D. RANGE		JACKET O.D. MAXIMUM		CONNECTOR DIMENSIONS				NOMINAL KIT INSTALLED LENGTH	
						MAXIMUM O.D.		MAXIMUM LENGTH			
		IN	MM	IN	MM	IN	MM	IN	MM	IN	MM
<b>BARE CONCENTRIC NEUTRAL</b>											
15 kV (175 - 220 MILS)											
CJ R1511	#4 - 4/0 AWG	0.06 - 1.05	15 - 23	n/a		0.90	23	10.0	254	24.0	610
CJ R1512	3/0 - 350 kcmil	0.80 - 1.25	20 - 32	n/a		1.15	29	10.0	254	24.0	610
CJ R1513	400 - 750 kcmil	1.05 - 1.75	27 - 44	n/a		1.60	41	12.0	300	26.0	660
CJ R1514	750 - 1000 kcmil	1.30 - 1.85	33 - 47	n/a		1.85	47	12.0	300	26.0	660
25 - 28 kV (260 - 280 MILS)											
CJ R2511	#1 - 250 kcmil	0.80 - 1.20	20 - 30	n/a		1.50	38	9.0	229	28.0	711
CJ R2512	4/0 - 500 kcmil	1.05 - 1.60	27 - 41	n/a		1.95	50	11.0	279	30.0	762
CJ R2513	600 - 1000 kcmil	1.40 - 1.85	36 - 47	n/a		2.40	61	16.0	400	32.0	813
35 kV (345 MILS)											
CJ R3511	1/0 - 250 kcmil	0.95 - 1.35	24 - 34	n/a		1.00	25	10.0	254	30.0	762
CJ R3512	4/0 - 600 kcmil	1.30 - 1.75	33 - 44	n/a		1.50	38	10.0	254	30.0	762
CJ R3513	600 - 1000 kcmil	1.55 - 2.15	39 - 55	n/a		1.85	47	12.0	300	32.0	813
<b>JACKETED CONCENTRIC NEUTRAL</b>											
15 kV (175 - 220 MILS)											
CJ R1511J	#4 - 3/0 AWG	0.06 - 1.05	15 - 23	1.25	32	0.90	23	10.0	254	48.0	1220
CJ R1512J	3/0 - 400 kcmil	0.80 - 1.25	20 - 32	1.50	38	1.15	29	10.0	254	48.0	1220
25 - 28 kV (260 - 280 MILS)											
CJ R2511J	#1 - 250 kcmil	0.80 - 1.20	20 - 30	1.50	38	1.50	38	9.0	229	48.0	1220
CJ R2512J	4/0 - 500 kcmil	1.05 - 1.60	22 - 41	1.95	50	1.95	50	11.0	279	48.0	1220
CJ R2513J	600 - 1000 kcmil	1.40 - 1.85	36 - 47	2.40	61	2.40	61	16.0	400	52.0	1320

## 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 CJ R10 series joints are for bare concentric neutral cables. The CJ R10J series joints are for repairing jacketed concentric neutral cables. 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.