

# CJ 20 SERIES

INSULATE  
SEAL  
PROTECT

## HEAT SHRINK MEDIUM VOLTAGE JOINTS

CJ 20 SERIES JOINTS ARE SINGLE CORE, 5 kV TO 35 kV, HEAT SHRINK JOINTS FOR XLPE AND EPR EXTRUDED DIELECTRIC, METAL TAPE, WIRE AND LEAD SHEATH SHIELDED POWER CABLES. THE CJ 20 SERIES JOINTS ARE SUPPLIED WITH ALL OF THE HARDWARE REQUIRED TO SHIELD AND EXTERNALLY GROUND THE JOINT WITHOUT SOLDERING. MOST OF THE JOINTS CAN BE SUPPLIED WITH EITHER A TUBE OR A WRAPAROUND SLEEVE FOR 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
- Wraparound jacket sleeve option (W) allows for reduced installation space
- 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 20 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 20 series joints with tubular or wraparound jackets.

Test reports are available as follows:

- CJ 820 series: HVS020079
- CJ1520 series: HVS020080
- CJ2520 series: HVS020081 & HVS020083
- CJ3520 series: HVS020082



## 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
5 kV (90 - 110 MILS)											
CJ 821(W)	#8 - 2/0 AWG	0.35 - 0.65	9 - 17	0.85	22	0.50	13	3.00	76	24.0	610
CJ 822(W)	3/0 - 300 kcmil	0.55 - 0.90	14 - 23	1.20	29	0.75	19	4.25	108	26.0	660
CJ 823(W)	350 - 750 kcmil	0.80 - 1.15	20 - 30	1.80	46	1.10	28	6.00	152	28.0	711
CJ 824(W)	1000 - 1500 kcmil	1.00 - 1.60	25 - 41	2.30	58	1.45	37	8.00	203	30.0	762
8 kV (115 MILS)											
CJ 821(W)	#6 - #2 AWG	0.35 - 0.65	9 - 17	0.85	22	0.50	13	3.00	76	24.0	610
CJ 822(W)	#1 - 4/0 kcmil	0.55 - 0.90	14 - 23	1.20	29	0.75	19	4.25	108	26.0	660
CJ 823(W)	250 - 350 kcmil	0.80 - 1.25	20 - 32	1.80	46	1.10	28	6.00	152	28.0	711
CJ 824(W)	500 - 750 kcmil	1.00 - 1.60	25 - 41	2.30	58	1.45	37	8.00	203	30.0	762
CJ 825(W)	750 - 1000 kcmil	1.30 - 2.10	33 - 53	2.50	64	1.85	47	8.00	203	30.0	762
15 kV (175 - 220 MILS)											
CJ 1521(W)	#4 - 4/0 AWG	0.60 - 1.05	15 - 27	1.25	32	1.05	26	4.25	108	28.0	711
CJ 1522(W)	4/0 - 500 kcmil	0.80 - 1.25	20 - 32	1.50	38	1.25	32	5.50	140	30.0	762
CJ 1523(W)	400 - 750 kcmil	1.05 - 1.60	27 - 41	1.85	47	1.75	44	8.00	203	32.0	813
CJ 1524(W)	750 - 1750 kcmil	1.30 - 2.15	33 - 55	2.45	62	2.15	55	8.00	203	32.0	813
25 - 28 kV (260 - 280 MILS)											
CJ 2521(W)	#1 - 250 kcmil	0.80 - 1.25	20 - 32	1.50	38	1.10	28	4.00	102	30.0	762
CJ 2522(W)	4/0 - 500 kcmil	1.05 - 1.55	27 - 39	1.95	50	1.30	33	6.00	152	34.0	864
CJ 2523 W	600 - 1000 kcmil	1.40 - 1.85	33 - 47	2.40	61	1.85	47	8.00	203	36.0	915
35 kV (345 MILS)											
CJ 3521 W	1/0 - 250 kcmil	0.95 - 1.35	24 - 34	1.55	39	1.00	25	5.00	127	39.0	991
CJ 3522 W	250 - 600 kcmil	1.30 - 1.75	33 - 44	2.10	53	1.50	38	8.00	203	42.0	1067
CJ 3523 W	600 - 1000 kcmil	1.55 - 2.15	39 - 55	2.80	71	1.85	47	10.00	254	46.0	1168

## 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 installation space required for joints with tube jackets (CJ 820, CJ 1520, etc.) is approximately two times that of the installed joint length. This installation space can be reduced to the installed length plus six inches by adding the "W" suffix to the end of the part number. FOR EXAMPLE a CJ 1523 needs approximately 64 in for installation. The CJ 1523W with wraparound jacket sleeve takes only 38 in of free space. CJ 2523W - CJ 3523W are not available with tube jackets. The overlap in size range 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.

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