



# POWER KABEL INC.

## VFD TRAY CABLE 3C XLP INSULATION SHIELDED TYPE TC-ER PVC JACKET 600V

### APPLICATIONS & FEATURES

Cable is suitable for use up to 600Volts 90Deg C Wet or Dry, sunlight resistant, and direct burial. XLP insulation provides good resistance to voltage spikes encountered in VFD applications. Per NEC Articles 336 & 392, approved for installation in raceway and cable tray systems, and hazardous locations per Article 501 Class 1 Division 2

### INDUSTRY COMPLIANCES

UL Standard 1277 for Type TC Cables.  
 Passes UL & IEEE 70,000BTU Flame Test  
 IEEE 1202 / CSA FT-4 Flame Tests

UL Standard 44 for XHHW-2 Conductors  
 ICEA S-95-658/NEMA WC-70  
 NEC Articles 336 & 392 For Tray Cables.

CONSTRUCTION	
<b>CONDUCTORS:</b>	CLASS B STRANDED BARE COPPER PER ASTM B-3
<b>INSULATION:</b>	HEAT AND MOISTURE RESISTANT CROSSLINKED POLYETHYLENE (TYPE XHHW-2), PHASE IDENTIFIED BLACK INSULATION WITH NUMBERS (1 - 2 - 3).
<b>GROUNDS:</b>	3 STRANDED BARE COPPER GROUNDS (ONE IN EACH INTERSTICE
<b>SHIELDING:</b>	5 MIL COPPER TAPE HELICALLY APPLIED OVER CONDUCTORS
<b>ASSEMBLY:</b>	CONDUCTORS CABLED TOGETHER WITH A STRANDED COPPER GROUND WIRE IN ONE OF THE INTERSTICES, SUITABLE FILLERS FOR ROUNDNESS WHERE NEEDED, AND CABLE TAPE
<b>JACKET:</b>	SUNLIGHT RESISTANT, FLAME RETARDANT BLACK PVC PER UL 1277, WHICH PROTECTS AGAINST HEAT, FLAME, CHEMICALS, AND MOISTURE , AND MECHANICAL DAMAGE

AWG	STRANDS	NUMBER OF CONDUCTORS	INSULATION THICKNESS	No of GROUND WIRES AND AWG	JACKET THICKNESS	OUTSIDE DIAMETER	POUNDS PER 1000 FT
14	7	3	.030"	3 - #18's	.045"	.43"	145
12	7	3	.030"	3 - #16's	.045"	.48"	195
10	7	3	.030"	3 - #14's	.045"	.52"	255
8	7	3	.045"	3 - #14's	.060"	.68"	415
6	7	3	.045"	3 - #12's	.060"	.73"	540
4	7	3	.045"	3 - #10's	.080"	.87"	760
3	7	3	.045"	3 - #10's	.080"	.93"	890
2	7	3	.045"	3 - # 8's	.080"	1.00"	1110
1	19	3	.055"	3 - # 8's	.080"	1.11"	1330
1/0	19	3	.055"	3 - # 6's	.080"	1.19"	1670
2/0	19	3	.055"	3 - # 6's	.080"	1.29"	1980
3/0	19	3	.055"	3 - # 4's	.080"	1.40"	2500
4/0	19	3	.055"	3 - # 4's	.080"	1.52"	2990
250MCM	37	3	.065"	3 - # 4's	.110"	1.76"	3590
300MCM	37	3	.065"	3 - #3's	.110"	1.86"	3920
350MCM	37	3	.065"	3 - # 2's	.110"	1.99"	4910
400MCM	37	3	.065"	3 - #2's	.110"	2.08"	5150
500MCM	37	3	.065"	3 - # 1's	.110"	2.28"	6700
600MCM	61	3	.080"	3 - 1/0's	.110"	2.51"	8030
750MCM	61	3	.080"	3 - 2/0's	.140"	2.80"	10080

All values are nominal and subject to correction.