



POWER KABEL INC.

VFD TRAY CABLE 4C XPL INSULATION SHIELDED TYPE TC-ER PVC JACKET 2KV

APPLICATIONS & FEATURES

A flexible and durable cable for use on variable frequency motor drive systems in various industries such as automotive, pulp and paper, and petrochemical. Cable is rated 2KV 90° C in dry or dry locations, sunlight resistant, and suitable for direct burial. XPL 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 in hazardous locations per Article 501 Class 1 Division 2.

INDUSTRY COMPLIANCES

UL Standard 1277 for Type TC Cables.	Passes UL & IEEE383 70,000BTU Flame Tests.
UL Standard 44 for RHH/RHW-2 Conductors	ICEA S-95-658/NEMA WC70 for Nonshielded 2KV Cables
NEC Articles 336 & 392 for Tray Cables uses and constructions	TC-ER rated cables comply with crush and impact requirements of MC cable

CONSTRUCTION

CONDUCTORS:	CLASS B STRANDED BARE COPPER PER ASTM B-3
INSULATION:	FLAME RETARDANT CROSSLINKED POLYETHYLENE (XPL) TYPE RHH/RHW-2/VW1 RATED 90DEG C WET OR DRY
GROUNDS:	3 STRANDED BARE COPPER GROUNDS (ONE IN EACH INTERSTICE)
SHIELDING:	5 MIL COPPER TAPE HELICALLY APPLIED OVER CONDUCTORS
ASSEMBLY:	CONDUCTORS CABLED TOGETHER WITH A STRANDED COPPER GROUND WIRE IN ONE OF THE INTERSTICES, SUITABLE FILLERS FOR ROUNDNESS WHERE NEEDED, AND CABLE TAPE
JACKET:	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	.060"	3 - #18's	.060"	.59"	215
12	7	3	.060"	3 - #16's	.060"	.63"	265
10	7	3	.060"	3 - #14's	.060"	.68"	335
8	7	3	.070"	3 - #14's	.060"	.78"	445
6	7	3	.070"	3 - #12's	.080"	.90"	620
4	7	3	.070"	3 - #12's	.080"	1.01"	840
2	7	3	.070"	3 - #10's	.080"	1.14"	1160
1	19	3	.090"	3 - #8's	.080"	1.27"	1440
1/0	19	3	.090"	3 - #6's	.080"	1.40"	1860
2/0	19	3	.090"	3 - #6's	.080"	1.49"	2180
3/0	19	3	.090"	3 - #5's	.080"	1.60"	2630
4/0	19	3	.090"	3 - #4's	.110"	1.79"	3250
250MCM	37	3	.105"	3 - #4's	.110"	1.95"	3780
300MCM	37	3	.105"	3 - #2's	.110"	2.06"	4410
350MCM	37	3	.105"	3 - #2's	.110"	2.17"	5120
500MCM	37	3	.105"	3 - #1's	.110"	2.47"	6950

All values are nominal and subject to correction.