

600V Aluminum Generator Cable

UL Type TC / TC-ER-JP



APPLICATION:

Multi-conductor all in one cable for connecting a 17kW-24kW generator to a transfer switch. JP (Joist Pull) rated per NEC 336.10(9). UL listed as Type TC-ER-JP for applications not to exceed 600V.

CONDUCTORS:

- Element 1: Aluminum 8000 series
- Element 2: Annealed bare copper Class K
- Element 3: Aluminum 8000 series

INSULATION:

- Element 1, 2 & 3: Polyvinylchloride (PVC) & Nylon

ASSEMBLY:

- All 3 Elements or Conductors are cabled together with Non-Hygroscopic Polypropylene fillers as required for a circular cross-section with a clear mylar binder tape and jacketed

JACKET:

- Black sunlight & flame resistant and direct burial approved PVC with ripcord rated 90°C wet or dry per UL 1277

COLOR CODE:

- Element 1: Black, Red, White
- Element 2: Black, Red, Yellow, Yellow/Black, Blue, White, White/Blue, Purple, Purple/Black
- Element 3: Green Ground

STANDARDS:

- UL Listed as TC-ER-JP per UL Standard 1277
- Rated 90°C wet or dry to meet UL 83 for THHN/THWN
- Meets cold bend test at -40°C
- ICEA S-73-532, ICEA S-95-658, where applicable
- Meets UL 1581 & 1202 (FT-4) 70,000 BTU/HR & ICEA T-29-520 210,000 BTU/HR requirements
- REACH compliant per Regulation (EC) No 1907/2006 (233) Updated January 17, 2023
- Cable is suitable for use in Class I Division 2 hazardous locations
- Element 1 & 2 conductors pass UL VW-1 flame test, rated THWN/VW-1
- ASTM B3, B8, B174, B787
- UL approved for Direct Burial & Sunlight Resistant Applications

Part Number (Ampacity*, Rating**)	Section	Conductor Size	No. of Conductors	No. of Strands	Insulation Thickness		Nylon Thickness		Jacket Thickness		Overall Diameter	Net Weight
		AWG			Inches	mm	Inches	mm	Inches	mm		
1-03TCGAL/18-09-VN (100 amps, 17kW-24kW)	Element 1	1	3	19	0.050	1.27	0.008	0.20	BK, RD, WT			
	Element 2	18	9	16	0.015	0.38	0.005	0.13	BK, RD, YL, YL/BK, BL, WT, WT/BL, PU, PU/BK			
	Element 3	6	1	19	0.030	0.76	0.005	0.13	Green Ground			
	Overall								0.080	2.03	1.086	675

All values are nominal and subject to correction.

*Ampacity according to NEC 310.16 @30°C ambient temperature.

**Installations shall follow NEC, applicable correcting factors shall be considered when conditions vary.

