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 the 2017 NEC 336.10(9). Black jacket and color coded inner conductors.

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:

- Sunlight resistant and direct burial approved PVC with ripcord rated 75°C wet or dry per UL 1277

COLOR CODE:

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

STANDARDS:

- UL Listed as TC-ER-JP per UL Standard 1277
- Rated 75°C wet or dry to meet UL 83 for THHN/THWN
- Meets cold bend test at -40°C
- ICEA S-73-532
- 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 (197) Updated January 15, 2019
- 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, B174, B801

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	Inches	lbs/kft
1-03TCGAL/18-06-VN (100 amps, 17kW-24kW)	Element 1	1	3	19	0.050	1.27	0.008	0.20	-	-	-	-
	Element 2	18	6	16	0.015	0.38	0.005	0.13	-	-	-	-
	Element 3	6	1	7	0.030	0.76	0.005	0.13				
	Overall	-		-	-	-	-	-	0.080	2.03	1.084	651

All values are nominal and subject to correction.
*Ampacity according to NEC 310.15(B)(16) @30°C THWN 75°C insulated wires.
**Installations shall follow NEC, applicable correcting factors shall be considered when conditions vary.

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