

# 12AWG/4C Overall Braid VNTC (UL)TC-ER 600V, C(UL) CIC-TC, WTTC



PRODUCT DATA SHEET

Cable is suitable for installation under NEC (NFPA 70) article 336 guidelines.  
Cable is suitable for use in Class I Division 2 hazardous locations.  
Suitable for torsional applications which are typical for the loop in wind turbine generators (WTG).

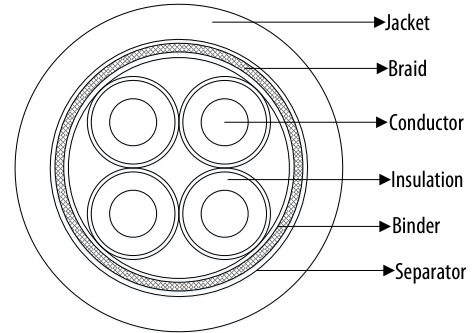
**Design Number** 10761  
**Part Number** 32141380  
**Customer Number** N/A

## CONSTRUCTION

**Conductor:** Stranded bare copper  
**Conductor Size:** 12AWG(65/0.010")  
**Insulation Material:** Polyvinyl Chloride/Nylon  
**Insulation Thickness:** 0.017"/0.005"(Nom.)  
**Insulation Diameter:** 0.130"(Nom.)  
**Cable Lay Length:** 4.00" RHL  
**Cable Binder:** Clear Mylar - 100% Coverage  
**Braid:** 36AWG Tinned copper, 85% Min Coverage  
**Separator:** Tissue - 100% Coverage  
**Jacket Material:** Thermoplastic Elastomer, pressure extruded  
**Jacket Thickness:** 0.045"(Nom.)  
**Overall Diameter:** 0.431"(Nom.)  
**Jacket Color:** Matte Black

### Print Legend (Footage Markers):

ASCENT E478019-LU 12AWG 4C SHIELDED (UL) TC-ER THWN-2/VW-1  
600V 90C DRY/WET TPE JACKET SUN RES DIR BUR OR WTTC 1KV OR  
CIC-TC C(UL) 12AWG 4C PVC/N SHIELDED 600V FT1 FT4 90C DRY 75C  
WET SR **CE** MADE IN USA



**Color Code:** Black and numbered

## ELECTRICAL&PHYSICAL CHARACTERISTICS

**Operating Temperature (°C):** 90°C  
**Operating Voltage:** UL 600V(TC-ER, CIC), WTTC 1000V  
**Conductor DC Resistance@20°C:** 5.54 Ω/km Max  
**Impedance:** 41 Ω±10%  
**Mutual Capacitance:** 42 pF/ft  
**Bend Radius:** Static 5x OD, Dynamic 15x OD  
**Cold bend Rating:** -40°C  
**Weight:** 175 Lbs/Mft

## SAFETY CHARACTERISTICS

UL listed as Type TC-ER per UL Standard 1277 for Tray Cables  
UL approved for Direct Burial, Sunlight and Oil I & II Resistant  
UL listed as Type WTTC per UL Standard 2277 for wind turbine tray cables  
Cable meets UL 1581 & 1202(FT-4) 70,000 BTU/HR requirements  
Listed as Type CIC-TC per CSA Standard C22.2 No. 239-17 & No.230-09  
In compliance with the Low Voltage Directive 2006/95/EC  
Product is marked CE in accordance with EC Declaration of Conformity  
Cable meets RoHS 2002/95/EC Directive, RoHS 2 2011/65/EU Directive  
RoHS 2015/863/EU Directive  
Cable is REACH compliant per Regulation (EC) No 1907/2006(219) Updated Jan.17, 2022

**Application:** Torsion resistant for drip loops, Industrial machinery, Compliant with tool machines, Plant engineering, Wind Turbine Tray Cable, Outdoor use and Direct burial in the USA

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Revision History		
00	2023/03/31	Initial Release
Created L. Jian		Approved A. Huang

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