

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).

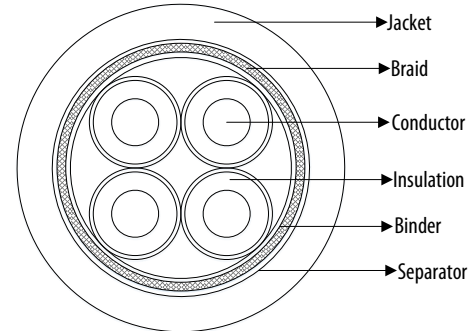
Design Number 10761
Part Number 32141380
Customer Number N/A

CONSTRUCTION

Conductor: Annealed bare copper
Conductor Size: 12AWG 65 Strands Class K
Insulation Material: Polyvinyl Chloride/Nylon
Insulation Thickness: 0.017"/0.005"(Nom.)
Insulation Diameter: 0.130"(Nom.)
Cable Lay Length: 4.00" RHL, Nominal
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: 0.050"(Nom.)
Overall Diameter: 0.441"±0.010"
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 SUN RES OR WTTC 1000V OR CIC-TC C(UL) 12AWG 4C
PVC/N SHIELDED 600V FT1 FT4 90C DRY 75C WET SR DIR BUR C€
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: 5.53 Ω/km Max
Mutual Impedance: 47.5 Ω
Mutual Capacitance: 35.63 pF/ft.
Bend Radius: Static 5x OD, Dynamic 15x OD
Cold bend Rating: -40°C
Weight: 174 Lbs/Mft

SAFETY CHARACTERISTICS

UL listed as Type TC-ER per UL Standard 1277 for Tray Cables
UL approved for Direct Burial, Sunlight Resistant applications
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
RoHS & REACH Compliant

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
01	2026/03/16	The print legend is adjusted a little
02	2026/05/21	The print legend, impedance is adjusted
Created L. Jian Approved T. Plochocki		

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