



**NWI EXPRESS**  
5 Days Design to Deliver

**FEATURES**

- Control
- Power

**BENEFITS:**

- UL listed and approved for CE Mark
- Compliant to ANSI, NEC®, NFPA, RoHS2 and REACH standards
- Oil Res I and II
- Rugged and ultra reliable
- Outstanding torsional and bend high flex life
- High performance stranding rated for constant flex
- Cold bend test as low as -25°C
- Highly oil and flame resistant

- Composite and custom options available
- Over-mold and assembly compatible
- Retractable options available

**DYNAMIC RANGE OF USE:**

- Wind Turbine Tray Cable low-voltage control, power and data
- Installation in cable trays or raceways within a wind turbine generator and nacelles
- Flexible Motor Supply
- Variable Frequency Drives (VFD)
- Servo motors

	TW, THW, THW2, THHN	THWN, THWN-2, THHN	TF, TFF	TFN, TFFN
<b>INSULATED CONDUCTORS</b>				
<b>Conductor Count</b>	2 or more	2 or more	2 or more	2 or more
<b>AWG (mm2)</b>	14 - 12 (2.08 - 3.31) 10 (5.26) 8 (8.37) 6 (13.3)	14 - 12 (2.08 - 3.31) 10 (5.26) 8 (8.37) 6 (13.3)	18 - 16 (0.824 - 1.31)	18 - 16 (0.824 - 1.31)
<b>Stranding - Minimum and Maximum Diameter of individual wires AWG in inches (mm)</b>	14 .0063 - .0253 (.160 - .643) 12 .010 - .032 (.254 - .813) 10 .010 - .0385 (.254 - .978) 8 .0201 - .0508 (.511 - 1.29) 6 .0201 - .064 (.511 - 1.626)	14 .0063 - .0253 (.160 - .643) 12 .010 - .032 (.254 - .813) 10 .010 - .0385 (.254 - .978) 8 .0201 - .0508 (.511 - 1.29) 6 .0201 - .064 (.511 - 1.626)	18 - 16 .005 - .0159 (.127 - .404)	18 - 16 .005 - .0159 (.127 - .404)
<b>Material</b>	PVC	PVC/Nylon	PVC	PVC/Nylon
<b>Minimum Wall Thickness in inches (mm)</b>	.030 (0.762) .030 (0.762) .045 (1.143) .060 (1.524)	.015 / .004 (0.381 / 0.102) .020 / .004 (0.508 / 0.102) .030 / .005 (0.762 / 0.127) .030 / .005 (0.762 / 0.127)	.030 (0.762)	.015 / .004 (0.381 / 0.102)
<b>OVERALL CABLING</b>				
<b>Fillers</b>	★	★	★	★
<b>Shielding</b>	★	★	★	★
<b>Wraps</b>	★	★	★	★
<b>Strength Members</b>	★	★	★	★
<b>OUTER JACKET</b>				
<b>Material</b>	PVC, TPE	PVC, TPE	PVC, TPE	PVC, TPE
<b>Color</b>	★	★	★	★
<b>Overall OD inches and jacket thickness inches (mm)</b>	0 - .425, .045 (0 - 10.80, 1.14) .426 - .700, .060 (10.81 - 17.78, 1.52) .701 - 1.500, .080 (17.78 - 38.10, 2.03) 1.501 - 2.500, .110 (38.10 - 63.50, 2.79) ≥ 2.501, .140 (63.50, 3.56)	0 - .425, .045 (0 - 10.80, 1.14) .426 - .700, .060 (10.81 - 17.78, 1.52) .701 - 1.500, .080 (17.78 - 38.10, 2.03) 1.501 - 2.500, .110 (38.10 - 63.50, 2.79) ≥ 2.501, .140 (63.50, 3.56)	0 - .425, .045 (0 - 10.80, 1.14) .426 - .700, .060 (10.81 - 17.78, 1.52) .701 - 1.500, .080 (17.78 - 38.10, 2.03) 1.501 - 2.500, .110 (38.10 - 63.50, 2.79) ≥ 2.501, .140 (63.50, 3.56)	0 - .425, .045 (0 - 10.80, 1.14) .426 - .700, .060 (10.81 - 17.78, 1.52) .701 - 1.500, .080 (17.78 - 38.10, 2.03) 1.501 - 2.500, .110 (38.10 - 63.50, 2.79) ≥ 2.501, .140 (63.50, 3.56)
<b>ELECTRICAL</b>				
<b>Max. Operating Voltage - UL</b>	600V - 1000V	600V - 1000V	600V - 1000V	600V - 1000V
<b>DC Resistance Max</b>	Reference UL 83	Reference UL 83	Reference UL 66	Reference UL 66
<b>DC Resistance Nominal</b>	See Chart C, Page 166	See Chart C, Page 166	See Chart C, Page 166	See Chart C, Page 166
<b>Ampacity</b>	NEC® Article 392.80(A)	NEC® Article 392.80(A)	NEC® Article 402.5	NEC® Article 402.5

Products ENERGY

**FLEX:**



**EXTREME ENGINEERING:**

