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
- Retractile 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 Cable
- Variable Frequency Drives (VFD)
- Servo motors

	TW, THW, THW-2 THHN	THWN, THWN-2, THHN	TF, TFF	TFN, TFFN
INSULATED CONDUCTORS				
Conductor Count	2 or more	2 or more	2 or more	2 or more
AWG (mm2)	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)
Stranding - Minimum and Maximum Diameter of individual wires AWG in inches (mm)	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)
Material	PVC	PVC/Nylon	PVC	PVC/Nylon
Minimum Wall Thickness in inches (mm)	.030 (0.762) .030 (0.762) .045 (1.143) .060 (1.524)	.015 /.004 (0.381 / 0.102) .020 /.004 (0.508 / .0102) .030 /.005 (0.762 / 0.127) .030 /.005 (0.762 / 0.127)	.030 (0.762)	.015 /.004 (0.381 / 0.102)
OVERALL CABLING				
Fillers	★	★	★	★
Shielding	★	★	★	★
Wraps	★	★	★	★
Strength Members	★	★	★	★
OUTER JACKET				
Material	PVC, TPE	PVC, TPE	PVC, TPE	PVC, TPE
Color	★	★	★	★
Overall OD inches and jacket thickness inches (mm)	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)
ELECTRICAL				
Max. Operating Voltage - UL	600V - 1000V	600V - 1000V	600V - 1000V	600V - 1000V
DC Resistance Max	Reference UL 83	Reference UL 83	Reference UL 66	Reference UL 66
DC Resistance Nominal	See Chart C, Page 166	See Chart C, Page 166	See Chart C, Page 166	See Chart C, Page 166
Ampacity	NEC® Article 392.80(A)	NEC® Article 392.80(A)	NEC® Article 402.5	NEC® Article 402.5

FLEX:

TORSIONAL · ROLLING · VARIABLE · BENDING · CONTINUOUS

EXTREME ENGINEERING:

EXTREME COLD · FLAME RESISTANT · WET USE · OIL RESISTANT · CHEMICAL RESISTANT · UV RESISTANT · WELD FLASH · WELD SLAG · SILICONE FREE