



NWI EXPRESS
5 Days Design to Deliver

FEATURES

- Signal
- Control
- Power

BENEFITS:

- TIA and EIA standards compliant
- UL recognized AWM Style and CSA certified and approved for CE Mark
- Compliant to requirements for RoHS2 and REACH standards
- Highly customizable including shielding and high flex constructions
- Composite and custom options available
- Over-mold and assembly compatible
- Available in retractile

DYNAMIC RANGE OF USE:

- Data Transfer
- Communications
- Voice
- Audio
- Video
- Automotive infotainment systems
- Machine Vision
- Notebook & tablet computers
- Intelligent Transportation Systems
- LAN & Home Networks
- Ethernet CAT 5e

	EIA RS-232	TIA/ EIA 485	TIA/ EIA 568-B	TIA/ EIA 644
INSULATED CONDUCTORS				
Conductor Count	3+	3+ (1 Pair)	4 (pairs)	2+
AWG (mm ²)	34 - 10 (.022 - 5.07)	34 - 10 (.022 - 5.07)	24 - 14 (0.25 - 2.3)	34 - 10 (.022 - 5.07)
Stranding - Nominal Diameter of individual strands AWG in inches (mm)	.005+ (0.127+)	.005+ (0.127+)	.005+ (0.127+)	.005+ (0.127+)
Material	PVC Semi-rigid PVC Polyolefin Cross link Polyolefin Foamed Polyethylene	PVC Semi-rigid PVC Polyolefin Cross link Polyolefin Foamed Polyethylene	Polypropylene Cross Link Polyethylene Foamed Polyethylene Polyethylene	Polypropylene Cross Link Polyethylene Foamed Polyethylene Polyethylene
Insulation Wall Thickness inches (mm)	.004+ (0.102+)	.004+ (0.102+)	.004+ (0.102+)	.004+ (0.102+)
OVERALL CABLING				
Fillers	★	★	★	★
Shielding	★	★	★	★
Armoring	★	★	★	★
Wraps	★	★	★	★
Strength Members	★	★	★	★
OUTER JACKET				
Material	PVC TPE TPU TPR Foamed Polyethylene	PVC TPE TPU TPR Foamed Polyethylene	PVC TPE TPU TPR Foamed Polyethylene	PVC TPE TPU TPR Foamed Polyethylene
Color	★	★	★	★
Minimum Acceptable Jacket Wall Thickness inches (mm)	.010+ (0.254)	.010+ (0.254)	.010+ (0.254)	.010+ (0.254)
ELECTRICAL				
Max. Operating Voltage - UL	30V - 2000V	30V - 2000V	30V - 2000V	30V - 2000V
DC Resistance Max Ω/1000ft (Ω/m)	-	-	Dependent on construction	Dependent on construction
DC Resistance Nominal mΩ/ft (mΩ/m)	See Chart C, Page 166	See Chart C, Page 166	See Chart C, Page 166	See Chart C, Page 166
Impedance Ohms	-	-	100 ± 15	110 ± 10
Mutual Capacitance pF/ft Nominal	< 2500 pF	-	-	-

FLEX:



EXTREME ENGINEERING:

