

Industrial Ethernet Brad® RJ-Lnxx® RJ-45 Double-Ended Cordsets

130050

**Threaded
Male-Male Straight
RJ-45 (Industrial)-to-
RJ-45 (Industrial) and
RJ-45 (Industrial)-to-
RJ-45 (Standard)**



Features and Benefits

- RJ-45 plug, combined with industrially proven form factor provides a secure robust connection that protects against the effects of vibration and accidental disconnection
- Category 5e compliant
- Several cable options available
- Achieves IEC IP67 rates seal when mated with an RJ-Lnxx® receptacle

ENS—Shielded Solid Core Cable

Physical

Cable: Solid Core
 Conductors: 24 AWG solid bare Copper, 0.020" (0.510mm)
 Insulation: 0.009" (0.229mm) of cellular polyethylene
 0.04" (1.0mm) nominal diameter
 Pair: Two insulated conductors twisted together, lay lengths varied between pairs to minimize cross talk
 Core: Four pairs cabled together
 Binder: Polyester tape, 20% overlay minimum
 Shield: Aluminum/Polyester tape, 20% overlay minimum
 Drain Wire: 24 AWG stranded (7/32") Tin-plated Copper
 Jacket: Black Polyurethane 0.025" (.635mm) nominal thickness
 Operating Temperature: -20 to +80° C
 Diameter: 0.245" (6.223mm) nominal
 TIA/EIA Rating: Category 5e

ENQ—Unshielded Stranded Cable

Physical

Cable: Stranded
 Conductors: 24 AWG stranded tinned Copper
 Insulation: Polyolefin 0.037" (0.94mm) nominal diameter
 Pair: Two insulated conductors twisted together, lay lengths varied between pairs to minimize cross talk
 Core: Four pairs cabled together
 Binder: Polyester tape, 20% overlay minimum
 Operating Temperature: -20 to +80° C
 Jacket: PVC 0.025" (0.635mm) nominal thickness
 Diameter: 0.220" (5.588mm) nominal
 TIA/EIA Rating: Category 5e

ENP—Shielded Standard Proplex™ Kevlar®-Wrapped Cable

Physical

Cable: Proplex Kevlar-wrapped
 Conductors: 26 AWG stranded bare Copper
 Insulation: Color coded HFFR, Halogen free, 0.035" (0.90mm) nominal diameter
 Pair: Cabled with Kevlar strength member and tape wrapped
 Core: Four pairs cabled together
 Shield: Inner—Aluminum Mylar, 100% coverage
 Outer—Tinned Copper Braid: 80% coverage
 Operating Temperature: -70 to +105° C
 Jacket: Black Urethane 0.059" (1.5mm) nominal thickness
 Diameter: 0.287" (7.3mm) nominal
 TIA/EIA Rating: Category 5e

ENV—Shielded Solid Core

Physical

Cable: Solid core
 Conductors: 24 AWG solid bare Copper, 0.020" (0.510mm)
 Insulation: Polyethylene, 0.042" (1.07mm) nominal diameter
 Pair: Two insulated conductors twisted together, lay lengths varied between pairs to minimize cross talk
 Core: Four pairs cabled together
 Binder: Polyester tape, 20% overlay minimum
 Shield: Aluminum/Polyester tape
 Drain Wire: 24 AWG Tin Copper matt Polyurethane
 Jacket: Black Polyurethane UV stable, 0.0244" (0.620mm) nominal thickness
 Diameter: 0.244" (6.200mm) nominal
 Operating Temperature: -20 to 60° C
 Wiring Sequence: Choice of TIA/EIA 568A/B or 10 Base-T
 TIA/EIA Rating: Category 5e

RJ-Lnxx-to-RJ-45 RJ-Lnxx RJ-45 Male, Double-Ended

Cable Type	Cable Jacket	Wire Size AWG	Wiring	Length	Male Straight Industrial-to-Industrial		Male Straight Industrial-to-Standard	
					Engineering No.	Standard Order No.	Engineering No.	Standard Order No.
Shielded Stranded Proplex Kevlar-wrapped (ENP)	PUR Kevlar-wrapped	26	10 Base-T (4 wire)	1.0m	ENP1115M010	130050-0076	ENP1135M010	130050-0093
			568A (8 wire)		ENP2115M010	130050-0122	ENP2135M010	130050-0140
			568B (8 wire)		ENP3115M010	130050-0170	ENP3135M010	130050-8036
Shielded Solid Core (ENS)	PUR	24	10 Base-T (4 wire)	1.0m	ENS1115M010	130050-0284		
			568A (8 wire)		ENS2115M010	130050-0336	ENS2135M010	130050-0371
			568B (8 wire)		ENS3115M010	130050-0412	ENS3135M010	130050-0429
Shielded Solid Core (ENV)	PUR	24	568B (8 wire)	1.0m	ENV3115M010	130050-8025	ENV3135M010	130050-8029
Unshielded Stranded (ENQ)	PVC	24	568B (8 wire)	1.0m	ENQ3115M010	130050-0251	ENQ3135M010	130050-0262

Note: Sales drawings for all standard order numbers are available on molex.com

*Kevlar is a trademark of DuPont

Configuration Code†
Build-a-Part Number

	Length	Code
Meters	1	M010
	2	M020
	5	M050
	10	M100

ENP1115M010

Wiring Option
Cable Option

†Once an engineering number is created using the configuration code, consult Molex tech support for information regarding any part numbers.