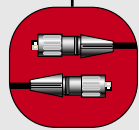


Overmolded Cordsets

Available as single-ended or double-ended cordsets with a 10Base-T (4 wire) or 568A/B (8 wire) wiring sequence. Offered with two industrial-sealed connectors for when both ends of the connection are to be used in harsh environments, or with the industrial connection on one end and a commercial RJ-45 connector on the other for applications where the far end may be a patch panel in a clean environment.

Various cables are offered to meet different needs. Solid core, shielded PUR cable is used for longer "horizontal cross-connect" runs, and is ideal for attaching to a punchdown block. Stranded PVC is appropriate for shorter "patch cord" applications, where greater cable flexibility is desired. For industries such as entertainment technology, where the cabling may be subjected to a great deal of abuse and movement, Kelvar wrapped cable provides an additional measure of insurance. Jacket colors (for stranded cable) other than black are available upon request.



- 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 rated sealed when mated with an RJ-Lnxx® receptacle

Overmolded Cordsets

Specifications

SOLID CORE CABLE

PHYSICAL
 CABLE: SOLID CORE
 CONDUCTORS: #24 AWG SOLID BARE COPPER, 0.020" (0.510 mm)
 INSULATION: 0.009" (0.229 mm) OF CELLULAR POLYETHYLENE
 PAIR: 0.04" (1.0 mm) NOMINAL DIAMETER 2 INSULATED CONDUCTORS TWISTED TOGETHER, LAY LENGTHS VARIED BETWEEN PAIRS TO MINIMIZE CROSS TALK
 CORE: 4 PAIRS CABLED TOGETHER
 BINDER: POLYESTER TAPE, 20% OVERLAY MINIMUM
 SHIELD: ALUMINUM/POLYESTER TAPE, 20%OVERLAY MINIMUM
 DRAIN WIRE: #24 AWG STRANDED (1/2") TIN-PLATED COPPER
 JACKET: BLACK POLYURETHANE 0.025" (.635 mm) NOMINAL THICKNESS
 OPERATING TEMPERATURE: -4° TO 176° F (-20° TO 80° C)
 DIAMETER: 0.245" (6.223 mm) NOMINAL
 WIRING SEQUENCE: CHOICE OF TIA/EIA , 568A/B, OR 10 BASE-T

ELECTRICAL @ 20° C

CABLE: SOLID
 CAPACITANCE: 5.6 nF/100 METER MAX
 VELOCITY OF PROPAGATION: 72% NOMINAL
 CONDUCTOR DC RESISTANCE: 9.38 /100 METER MAX
 IMPEDENCE: 100 ±15 OHMS
 DELAY SKEW: 45 nS/100 METER MAX
 TIA/EIA RATING: CATEGORY 5E

FREQUENCY (MHz)	ATTENUATION (dB/100 M max)	NEXT (dB min)
1	2.0	65.3
4	4.1	56.3
10	6.5	50.3
16	8.2	47.3
20	9.3	45.8
31.25	11.7	42.9
62.5	17.0	38.4
100	22.0	35.30

STRANDED CABLE

PHYSICAL
 CABLE: STRANDED
 CONDUCTORS: #24 AWG STRANDED TINNED COPPER
 INSULATION: POLYOLEFIN 0.037" (0.94 mm) NOMINAL DIAMETER
 PAIR: 2 INSULATED CONDUCTORS TWISTED TOGETHER, LAY LENGTHS VARIED BETWEEN PAIRS TO MINIMIZE CROSS TALK
 CORE: 4 PAIRS CABLED TOGETHER
 BINDER: POLYESTER TAPE, 20% OVERLAY MINIMUM
 OPERATING TEMPERATURE: -4° TO 176° F (-20° TO 80° C)
 JACKET: PVC 0.025" (0.635 mm) NOMINAL THICKNESS
 DIAMETER: 0.220" (5.588 mm) NOMINAL
 WIRING SEQUENCE: CHOICE OF TIA/EIA 568A/B OR 10 BASE-T

ELECTRICAL @ 20° C

CABLE: STRANDED
 CAPACITANCE: 15 pF/FT
 VELOCITY OF PROPAGATION: 70% NOMINAL
 CONDUCTOR DC RESISTANCE: 9.0 /100 METER MAX
 IMPEDENCE: 100 ±15 OHMS
 DELAY SKEW: 10 nS/100 METER TYPICAL, 25 nS/100 METER MAX
 TIA/EIA RATING: CATEGORY 5E

FREQUENCY (MHz)	ATTENUATION (dB/100 M max)	NEXT (dB min)
1	1.9	76
4	3.9	72
16	7.9	61
20	9.0	60
31.25	11.0	55
62.5	15.9	53
100	20.7	50

KELVAR WRAPPED CABLE

PHYSICAL
 CABLE: PROPLEX KEVLAR WRAPPED
 CONDUCTORS: #26 AWG STRANDED BARE COPPER
 INSULATION: COLOR CODED HFFR, HALOGEN FREE, 0.035" (0.90 mm) NOMINAL DIAMETER
 PAIR: CABLED WITH KEVLAR STRENGTH MEMBER AND TAPE WRAPPED
 CORE: 4 PAIRS CABLED TOGETHER
 SHIELD: INNER – ALUMINUM MYLAR, 100% COVERAGE
 OUTER – TINNED COPPER
 BRAID: 80% COVERAGE
 OPERATING TEMPERATURE: -94° TO 221° F (-70 TO 105° C)
 JACKET: BLACK URETHANE 0.059" (1.5 mm) NOMINAL THICKNESS
 DIAMETER: 0.287" (7.3 mm) NOMINAL
 WIRING SEQUENCE: CHOICE OF TIA/EIA , 568A/B, OR 10 BASE-T

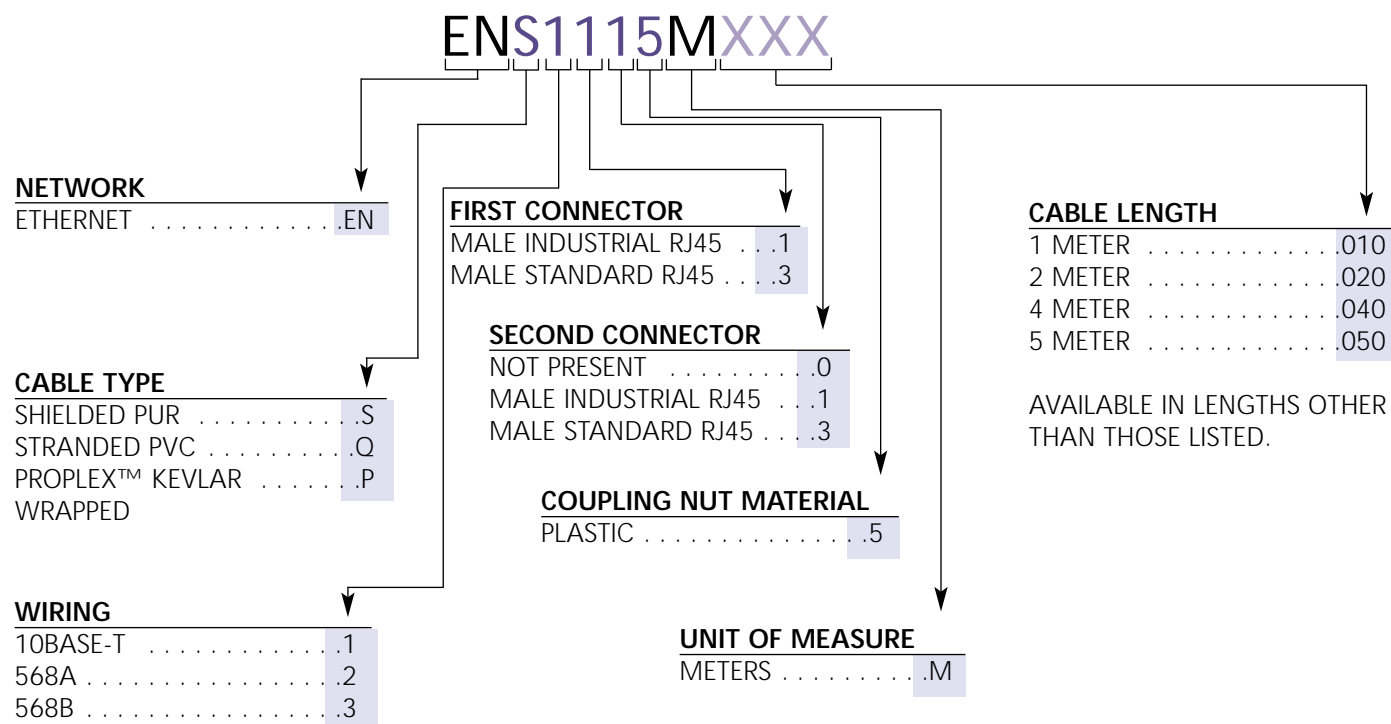
ELECTRICAL @ 20° C

CABLE: PROPLEX KEVLAR WRAPPED
 CAPACITANCE: 4.6 nF/100 METERS
 PROPAGATION DELAY: 5.2 nS/M MAXIMUM
 CONDUCTOR DC RESISTANCE: 15 /100 METER MAX
 IMPEDENCE: 100 ±15 OHMS
 DELAY SKEW: 20 nS/100 METER TYPICAL, 25 nS/100 METER MAX
 TIA/EIA RATING: CATEGORY 5

FREQUENCY (MHz)	ATTENUATION (dB/100 M max)	NEXT (dB min)
1	3.15	62
4	6.45	53
16	12.3	44
20	13.8	42
31.25	17.7	40
62.5	25.6	35
100	33.0	32

CORDSET OPTIONS

Example: ENS2135M020 cordset with 568A wiring, sealed industrial RJ-45 on one end, commercial RJ-45 on the other end, 2.0 meters in length



CONNECTOR DIMENSIONS

