

EnovaNxt CAT6A cable 4x2x22mm², with RJ45 connectors, black metal housing with True Mold Technology

Art. number: **NXT-D1-CAT6A-***



GENERAL DATA

| | |
|--------------------|----------|
| Brand: | EnovaNxt |
| Series: | D1 |
| Cable type: | CAT6A |
| Connector type: | RJ45 |
| Country of origin: | EU |

CABLE CONSTRUCTION

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|-----------------|--|------------------|------------------------------------|
| Conductor: | Stranded copper wire AWG24/, 0.22mm ² | Shielding 1: | Tinned copper braid |
| Insulation: | PE, Ø 1.4mm | Inner jacket: | PVC, black simil. RAL 90005, 7.5mm |
| Stranding: | 2 Cores stranded to a pair (4 pairs) - white/blue, white/orange, white/brown, white/orange | Separation tape: | Non-Woven tape |
| Pair screen: | Aluminum-laminated plastic foil around each pair | Outer jacket: | PUR, black simil. RAL 90005, 8.7mm |
| Overall screen: | 4 screened pairs stranded | | |

ELECTRICAL CHARACTERISTICS

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|-------------------------------|----------------------|--------------------------|--|
| Loop resistance max.: | ≤ 158 Ω/km | Velocity of propagation: | 75% |
| Restistance unbalance: | ≤ 2% | Delay skew: | ≤ 25 ns/100m |
| Insulation resistance (500V): | ≥ 5000 MΩxkm | Transfer impedance: | at 1 MHz ≤ 10 mΩ / m at 10 MHz ≤ 10 mΩ / m at 30 MHz ≤ 30 mΩ / m |
| Capacity at 800 Hz: | 43 nF/km | Coupling attenuation: | ≥ 85 dB |
| Characteristic impedance: | 100+/- 5 Ω at 100MHz | | |

MECHANICAL AND THERMAL CHARACTERISTICS

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|----------------------------------|----------------------|---------------------------------------|----------------|
| Weight: | 79 kg/km nom. | Temperature range in operation: | -30°C to +70°C |
| Min. bending radius mobile: | 4 x overall diameter | Temperature range in installation: | -20°C to +50°C |
| Min bending radius installation: | 8 x overall diameter | Max tensile strength at installation: | 130 N |

STANDARDS

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|--------------------|--|------------------|---------------------------------|
| ISO/IEC: | 11801 / 61156-6 | UV resistance: | 500h DIN EN ISO 4892-2A (black) |
| Oil resistance: | ASTM D471-06 IRM 901, 902 and 903 for 540h at 90°C | Flame retardant: | IEC 60332-1 |
| Power of Ethernet: | Power over Ethernet(PoE/PoE+) | Halogen-free: | no |
| RoHS: | 2011/65/EU | REACH: | 1907/2006 |

CONNECTIVITY SPEZIFICATIONS

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|----------------------------------|---|------------------------|-------------------------------|
| Connector A / B: | RJ45 CAT6A shielded, Polycarbonate UL94V-2, transparent | Connection technology: | EnovaNxt True Mold (patented) |
| Shell: | Zinc diecast ZnAl4Cu1 with black chromium 6 plating | Coding Ring: | TUP black, interchangeable |
| Lasering: | Length indication in meter on both shells | Shrink tubes: | Two, 6" each, transparent |
| Contacts: | Copper alloy, with 50U" gold plating | Strain relief: | PA6, press mandrel |
| Contact resistance: | 20 Milliohm max. | Insulation resistance | 500 Mega Ohm |
| Dielectric withstanding voltage: | 500VAC | UL applications: | 250V AC max at 2 amps |
| Lifetime: | 200 mating cycles | | |