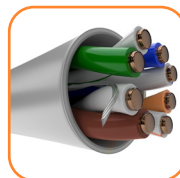


# Cat.5E cable

## U/UTP CMX Indoor use type jacket



AB355NXT41 - AB355NXT45



AB355NXT41  
AB355NXT45

### Related products



AB360NXT\*\*



AW160NXT\*\*



AW110NXT\*\*

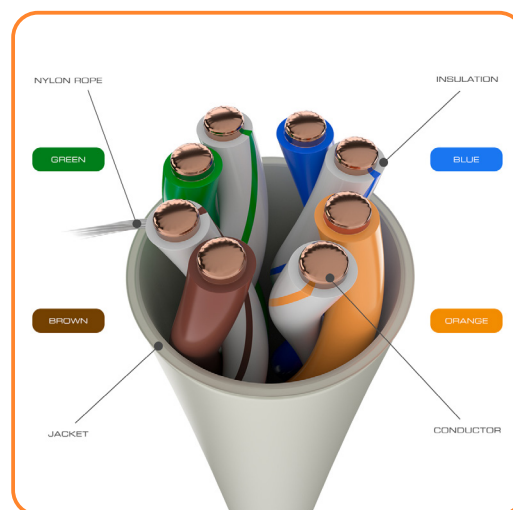


AW190NXT\*\*

## Exceptional interconnection capability for reliable data transmission

Our Unshielded Twisted Pair (U/UTP) category 5e cable is designed to support transmission speeds of 1 gigabit per second while ensuring reliable operation at frequencies of 100MHz or higher. Its PoE capabilities allow it to deliver both data and power to PoE-enabled devices such as IP cameras, access points and VoIP phones. It meets all relevant international telecommunications and electrical standards, including ANSI/TIA/EIA 568.2-D and ISO/IEC 11801. This Communications Multipurpose Cable has been constructed in compliance with production standards, with four pairs of solid bare copper 25AWG wires combined with a dielectric polyethylene foam to ensure maximum strength, ideal for ethernet deployments in single-story commercial or industrial buildings. Each easy-pull carton box contains 328 feet (100 meters) of cable.

| Frequency (MHz) | Insertion Loss (dB/100m) Max. | Return Loss (dB/100m) Min. | NEXT (dB) Min. | PS NEXT (dB) Min. | ACR-F (dB) Min. | PS ACR-F (dB) Min. | TCL (dB) Min. | PS ACR-F (dB) Min. |
|-----------------|-------------------------------|----------------------------|----------------|-------------------|-----------------|--------------------|---------------|--------------------|
| 1               | 1,85                          | 27,15                      | 79,72          | 75,92             | 71,25           | 68,45              | 53,55         | 49,85              |
| 4               | 3,76                          | 28,22                      | 68,64          | 66,25             | 58,92           | 58,15              | 51,96         | 48,96              |
| 8               | 5,25                          | 31,42                      | 62,81          | 58,73             | 51,22           | 49,32              | 45,94         | 42,94              |
| 10              | 6,15                          | 32,75                      | 60,52          | 57,42             | 49,51           | 48,22              | 44            | 41                 |
| 16              | 7,42                          | 35,62                      | 55,94          | 53,22             | 45,15           | 45,15              | 39,92         | 36,92              |
| 20              | 8,42                          | 40,15                      | 54,92          | 52,65             | 46,31           | 43,26              | 37,98         | 34,98              |
| 25              | 9,38                          | 35,74                      | 51,86          | 50,14             | 43,52           | 41,22              | 36,04         | 33,04              |
| 31,25           | 10,55                         | 36,45                      | 53,24          | 50,43             | 38,66           | 36,74              | 34,1          | 31,1               |
| 62,5            | 15,24                         | 35,42                      | 44,18          | 42,73             | 33,92           | 32,96              | 28,08         | 25,08              |
| 100             | 19,35                         | 25,41                      | 44,53          | 41,62             | 30,15           | 28,63              | 24            | 23,65              |
| 150             | 25,22                         | 17,75                      | 37,25          | 36,65             | 27,24           | 25,54              | 21,26         | 20,22              |
| 200             | 27,68                         | 23,72                      | 37,95          | 34,62             | 24,32           | 25,16              | 18,54         | 17,64              |
| 250             | 32                            | 20,84                      | 34,62          | 33,55             | 20,82           | 18,12              | 15,85         | 14,88              |
| 300             | 34,45                         | 18,32                      | 31,75          | 30,52             | 16,35           | 14,95              | 12,62         | 12,62              |



# Cat.5E cable

## U/UTP CMX Indoor use type jacket

### Product specifications

| Wire characteristics                  |                                                                                                                                                                    |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable type                            | UTP "Unshielded Twisted Pair"                                                                                                                                      |
| Number of pairs                       | 4                                                                                                                                                                  |
| Number of wires                       | 8                                                                                                                                                                  |
| Wire type                             | Solid bare copper                                                                                                                                                  |
| Wire gauge size                       | 25 AWG                                                                                                                                                             |
| Internal characteristics              |                                                                                                                                                                    |
| Internal jacket material              | High density Polyethylene (HDPE)                                                                                                                                   |
| Average min. thickness                | 0.22 mm                                                                                                                                                            |
| Min. thickness                        | 0.20 mm                                                                                                                                                            |
| Color combinations                    |                                                                                                                                                                    |
| Pair 1                                | Blue stripe + white + blue stripe                                                                                                                                  |
| Pair 2                                | Orange stripe + white + orange stripe                                                                                                                              |
| Pair 3                                | Green stripe + white + green stripe                                                                                                                                |
| Pair 4                                | Brown stripe + white + brown stripe                                                                                                                                |
| Cross pair separator                  | No                                                                                                                                                                 |
| External characteristics              |                                                                                                                                                                    |
| Flame rating                          | CMX Indoor use                                                                                                                                                     |
| External jacket material              | PVC 75°                                                                                                                                                            |
| Average min. thickness                | 0.46 mm - 0.48 mm                                                                                                                                                  |
| Min. thickness                        | 0.46 mm                                                                                                                                                            |
| Average cable diameter                | 4.6± 0.2 mm                                                                                                                                                        |
| Installation Tension                  | 25 lbf (110N) Maximum                                                                                                                                              |
| Available jacket colors               | Gray                                                                                                                                                               |
| Electrical characteristics            |                                                                                                                                                                    |
| Voltage rating                        | 70V                                                                                                                                                                |
| Temperature rating                    | -20°C - 75°C                                                                                                                                                       |
| Characteristic impedance (Zo)         | 100 ± 5 Ω                                                                                                                                                          |
| Conductive resistance                 | ≤ 9.38 Ω / 100 m                                                                                                                                                   |
| DC resistance capacitance unbalance   | ≤ 2%                                                                                                                                                               |
| Pair-to-ground capacitance unbalance  | ≤ 160 pF / 100 m                                                                                                                                                   |
| Mutual capacitance                    | Max. 5600pF / 100 m                                                                                                                                                |
| Dielectric strength                   | 1.00 kV DC or 0.7 kV AC/1 min                                                                                                                                      |
| Nominal velocity of propagation (NVP) | 69%                                                                                                                                                                |
| Meets PoE standards                   | IEEE802.3af, PoE type 1 (15.4 Watts/100m) IEEE802.3at, PoE type 2 (30 Watts/100m)                                                                                  |
| Transmission characteristics          |                                                                                                                                                                    |
| Transmission speed                    | 100Mbps (supports up to Gigabit ethernet speed)                                                                                                                    |
| Bandwidth                             | 100MHz                                                                                                                                                             |
| Link max. distance                    | 90m                                                                                                                                                                |
| Channel max. distance                 | 100m                                                                                                                                                               |
| Certifications and standards          |                                                                                                                                                                    |
| International Standards               | ANSI/TIA-568.2-D / ISO/IEC 11801 / EN 50173                                                                                                                        |
| UL certificate                        | UL CM E318654                                                                                                                                                      |
| Miscellaneous                         |                                                                                                                                                                    |
| Color                                 | GRAY                                                                                                                                                               |
| MPN                                   | AB355NXT41/AB355NXT45                                                                                                                                              |
| UPC                                   | 798302037021 / 798302037007                                                                                                                                        |
| Labeling                              | NEXXT U/UTP CABLE 25AWG 4PR CMX 75 °C (UL) E318654 ETL Verified rated ANSI/TIA/EIA 568.2-D CAT.5E XXXXXX-X XXXM<br>www.nexxtsolutions.com                          |
| Packaging                             | Carton pull box                                                                                                                                                    |
| Cable length                          | AB355NXT41: 328 ft/ 100 m - AB355NXT45: 1000ft/ 305m                                                                                                               |
| Cu. ft                                | AB355NXT41: 1.09 - AB355NXT45: 2.01                                                                                                                                |
| Warranty                              | Limited lifetime. <b>For full warranty details, visit:</b><br><b><a href="https://www.nexxtsolutions.com/warranty">https://www.nexxtsolutions.com/warranty</a></b> |

