

# FutureCom™ EA Patch Cord, FRNC, RJ45 - RJ45 connector

grey, RJ45-RJ45 connector, 3 m

CORNING

The application-neutral FutureCom™ category 6<sub>A</sub> patch cords have four individual foil-shielded pairs (PiMF) and an additional braid shield (S/FTP). They are assembled with a shielded RJ45 connectors on each end.

The zero halogen patch cords (LSZH) are non-corrosive according to IEC 60754-2 (FRNC) and EN 50267, low smoke according to IEC 61034 and EN 50268 and flame retardant according to IEC 60332-1, Category B and EN 50266-2-1. FutureCom™ S500 patch cords provide additional latch protection.

They are available in various lengths and colours.

## Features

- S/FTP flex cable, Category 7
- Application-neutral due to using all four pairs of RJ45 connectors
- Minimum surface transfer impedance of cable (<10 mΩ/m at 10 MHz)
- Outstanding transmission characteristics according to 10GBase-T
- Additional latch protection
- Category 6<sub>A</sub>
- PVP Certificate



## Specifications

### General Specifications

|                     |                         |
|---------------------|-------------------------|
| Cable assembly type | Patch Cords             |
| Environment         | Indoor                  |
| Cable type          | S/FTP                   |
| Halogen-free        | Yes                     |
| Category            | 6 <sub>A</sub>          |
| Product category    | Core product / Fastship |

### Temperature Range

|           |                 |
|-----------|-----------------|
| Operation | -20 °C to 60 °C |
|-----------|-----------------|

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## Design - Connector A

|                |            |
|----------------|------------|
| Connector type | RJ45 - 8/8 |
|----------------|------------|

## Mechanical Specifications - Connector A

|            |            |
|------------|------------|
| Durability | 750 Cycles |
|------------|------------|

## Electrical Specifications - Connector

|                       |           |
|-----------------------|-----------|
| Insulation Resistance | ≥ 5000 MΩ |
|-----------------------|-----------|

## Design - Connector B

|                |            |
|----------------|------------|
| Connector type | RJ45 - 8/8 |
|----------------|------------|

## Mechanical Specifications - Connector B

|            |            |
|------------|------------|
| Durability | 750 Cycles |
|------------|------------|

## Cable Design

|                       |                                    |
|-----------------------|------------------------------------|
| Conductor             | 26 AWG                             |
| Conductor Insulation  | Halogen-free foam-skin material    |
| Twisting              | 2 cores to a pair                  |
| Pair screen           | Al-laminated foil around each pair |
| No. of pairs          | 4                                  |
| Overall screen        | Copper braid, tinned               |
| Outer diameter        | 5.8 mm                             |
| Outer jacket material | LSZH™/FRNC                         |
| Outer jacket colour   | Grey                               |

## Mechanical Characteristics

|                               |        |
|-------------------------------|--------|
| Min. Bend Radius Installation | 47 mm  |
| Min. Bend Radius Operation    | 18 mm  |
| Nominal Outer Diameter        | 5.8 mm |

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## Electrical characteristics (at 20°C)

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Max. loop resistance            | 290 $\Omega$ /km                       |
| DC resistance unbalance         | 2 %                                    |
| Impedance $Z_0$ at 0-100 MHz    | 100 $\Omega$ +/- 15%                   |
| Impedance $Z_0$ at 101-250 MHz  | 100 $\Omega$ +/- 18%                   |
| Impedance $z_0$ at 251-600 MHz  | 100 $\Omega$ +/- 25%                   |
| Surface transfer impedance      | < 10 m $\Omega$ /m per meter at 10 MHz |
| Mutual capacity                 | 43 pF/m                                |
| Earth coupling at 0.001 MHz     | 1600                                   |
| Propagation delay $\geq$ 10 MHz | 4.3 ns/m                               |
| Delay skew                      | 20 ns/100 m                            |

## Chemical Characteristics

|      |                                                           |
|------|-----------------------------------------------------------|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
|------|-----------------------------------------------------------|

## Ordering Information

|                     |                                                                  |
|---------------------|------------------------------------------------------------------|
| Part Number         | CCAAGB-G1002-A030-C0                                             |
| Product Description | FutureCom™ EA Patch Cord, FRNC, RJ45 - RJ45 connector, grey, 3 m |
| EAN Code            | 4042673311645                                                    |
| Weight              | 0.144 kg                                                         |
| Length              | 3 m                                                              |

## Shipping Information

|                    |     |
|--------------------|-----|
| Units Per Delivery | 1/1 |
|--------------------|-----|



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