

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

grey, RJ45-RJ45 connector, 5 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
- Supports Power over Ethernet (PoE / PoE+ according to IEEE802.3bt)



## 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

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

grey, RJ45-RJ45 connector, 5 m

CORNING

## 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 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

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

grey, RJ45-RJ45 connector, 5 m

CORNING

## Electrical characteristics (at 20°C)

Max. loop resistance	290 Ω/km
DC resistance unbalance	2 %
Impedance $Z_0$ at 0-100 MHz	100 Ω +/- 15%
Impedance $Z_0$ at 101-250 MHz	100 Ω +/- 18%
Impedance $z_0$ at 251-600 MHz	100 Ω +/- 25%
Surface transfer impedance	< 10 mΩ/m per meter at 10 MHz
Mutual capacity	43 pF/m
Earth coupling at 0.001 MHz	1600 pF/km
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-A050-C0
Product Description	FutureCom™ EA Patch Cord, FRNC, RJ45 - RJ45 connector, grey, 5 m
EAN Code	4042673311652
Weight	0.24 kg
Length	5 m

## Shipping Information

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



Corning Optical Communications GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, GERMANY  
00 800 2676 4641 · FAX: +49 30 5303 2335 · [www.corning.com/opcomm/emea](http://www.corning.com/opcomm/emea)

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/emea/trademarks](http://www.corning.com/opcomm/emea/trademarks). Corning Optical Communications is ISO 9001 and ISO 14001 certified.  
© 2018 Corning Optical Communications. All rights reserved.