

**Product Group:** Corning LANscape® FutureCom™ EA

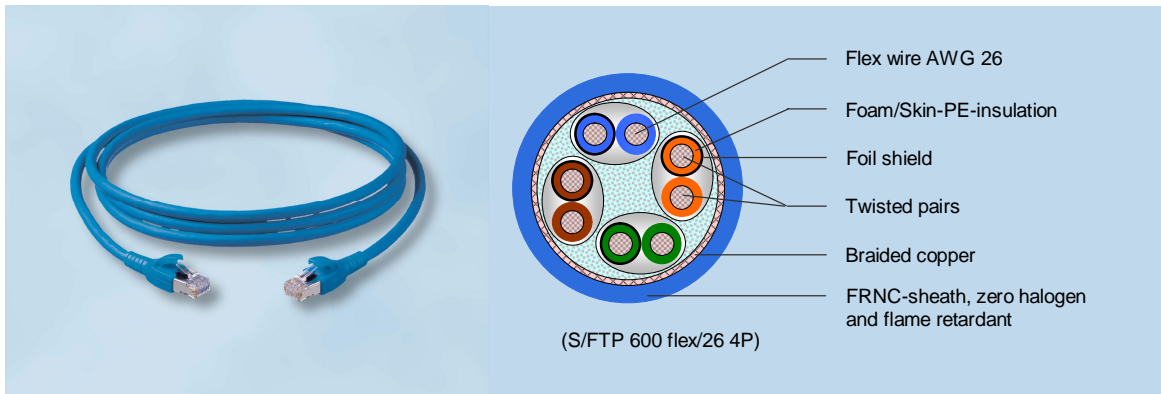
**Product:** Corning FutureCom™ EA S/FTP flex/26, 2xRJ45, LSZH, Category 6A

### Application

The FutureCom™ EA S/FTP flex patch cord with 2 RJ45 connectors in compliance with IEC 60603-7 provides transmission performance meeting Category 6A specifications ISO/IEC 11801 (2008). Outstanding performance for the transmission of digital data signals for future coming applications up to 10GbE in compliance with the new Class E<sub>A</sub> (ISO/IEC 11801 AMD 1: 2008), Cat.6<sub>A</sub> (ANSI/TIA/EIA 568B.2-10) and IEEE standard. FutureCom™ cables are low skew products, i.e. the difference in propagation delay between the individual pairs is very low. This is increasingly being requested for Gigabit Ethernet. The suitability of the cable for high-bit-rate transmission systems ensures a high degree of future proofing. The RJ45 connectors are fully assigned and hence application independent.

Additional features are the slim design and low weight of the flex cables. Each pair is individually shielded with foil (FTP). The twisted pairs are additionally enclosed as a group in a braided shield (S/FTP) to provide superior shielding performance.

The flex cable thus exceeds the requirements for EN 55022 Class B emission and EN 55024 immunity, enabling networks to be built which are compliant with the standards on electromagnetic compatibility.



### Mechanical characteristics

- high-quality total network screen and single pair shielding (best EMC characteristics, noise immunity and disturbing influence)
- connector boot with lash protection
- high-quality RJ45 connector
- Performance for Class EA / Cat.6A systems
- low fire loading with 0.43MJ/m
- outer diameter of flexware: 5.8 mm, weight: approx. 0.042 kg/m,
- bend radius:  $\geq 40$  mm during installation,  $\geq 30$  mm in operating, mating cycles:  $\geq 750$  cycles
- temperature range in operation:  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ , temperature range during installation:  $0^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- halogene free LSZH (Low Smoke Zero Halogen)
- flame retardant in compliance with IEC 60332-1

### Electrical characteristics flex cable @ 20°C

Frequency in MHz	1	10	20	31.25	62.5	100	300	600
Attenuation in dB/ 100 m per standard *	2.9	8.5	12.1	15.2	21.7	27.8	50.0	73.3
<b>Typical values in dB / 100 m</b>	<b>2.9</b>	<b>7.9</b>	<b>10.8</b>	<b>13.5</b>	<b>19.5</b>	<b>25.2</b>	<b>44.3</b>	<b>63.5</b>
NEXT in dB per standard *	80.0	80.0	80.0	80.0	75.1	72.4	65.3	60.8
<b>Typical values in dB / 100 m</b>	<b>96.0</b>	<b>96.0</b>	<b>96.0</b>	<b>96.0</b>	<b>95.0</b>	<b>94.0</b>	<b>86.0</b>	<b>80.0</b>
<b>Typical values ACR-N in dB (old: ACR)</b>	<b>93.1</b>	<b>88.1</b>	<b>85.2</b>	<b>82.5</b>	<b>75.5</b>	<b>68.8</b>	<b>41.7</b>	<b>16.5</b>

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\*) Standard: Requirements on 100 m installed Category 7 flex cable (corresponds to EN 50288-4-2)

- Max. loop resistance: 290  $\Omega$ /km
- Max. resistance difference: 2%
- Insulation resistance: > 5000 M $\Omega$  x km
- Impedance  $Z_0$  @ 1 up to 100 MHz: 100  $\Omega$   $\pm$  15%
- Impedance  $Z_0$  @ 101 up to 250 MHz: 100  $\Omega$   $\pm$  18%
- Impedance  $Z_0$  @ 251 up to 600 MHz: 100  $\Omega$   $\pm$  25%
- Transfer impedance: < 10 m $\Omega$  per meter @ 10 MHz
- Mutual capacity: 43 pF/m
- Max. capacitance @ 0.001 MHz: 1600 pF/km
- Propagation delay > 10 MHz: 4.3 ns/m
- Skew: 20 ns/100m

### Ordering informations

<b>Type designation</b>	FutureCom EA S/FTP flex 4P, 2XRJ45, LSZH, Cat.6A
<b>Delivery</b>	1 piece
<b>Bestellnummer (grey)</b>	CCAAGB-G1002-A***-C0 (***-length in dm)
<b>Bestellnummer (blue)</b>	CCAAGB-G2002-A***-C0 (***-length in dm)
<b>Bestellnummer (yellow)</b>	CCAAGB-G3002-A***-C0 (***-length in dm)
<b>Bestellnummer (green)</b>	CCAAGB-G4002-A***-C0 (***-length in dm)
<b>Bestellnummer (red)</b>	CCAAGB-G5002-A***-C0 (***-length in dm)
<b>Bestellnummer (black)</b>	CCAAGB-G6002-A***-C0 (***-length in dm)

### Example:

Type designation: FutureCom EA S/FTP flex 4P blue, 2XRJ45, LSZH, Cat.6A

Ordering number: 1.0 m: CCAAGB-G2002-A010-C0