

Data sheet

DCCS2 OS2 6xE2000DC APC H+S link

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P/N
130D2F95CXXXXE

2015-24-03

Illustrations



Product specification

- prefabricated fiber optic link consisting of 2 subassemblies DCCS2 with 6 E2000DC couplers mounted to a 12-fiber mini breakout cable
- port numbering of the DCCS2 "19"; subassembly frame remains in place when installing the FO subassemblies
- for 10 GBit Ethernet (IEEE 802.3an)
- the locking levers of patch cords connected to DCCS2 subassemblies show upwards and are easy to handle at any time
- solid and refined assembly housing
- cable diameter less than 6.5 mm
- delivery with serial number and 12 attenuation measurement reports
- mounting version: DCCS2
- available in prefabricated, customer specific lengths – replace xxxx in the part number by the length – examples: 0050 = 5.0 m; 0100 = 10.0 m; 0995 = 99.5 m; 2000 = 200.0 m
- maximum length 500 m
- configuration tool in Microsoft® Excel available on request
- variants: SM (OS2), SM (OS2 APC), MM (OM4), MM (OM3)



Technical Data

General Data

| | |
|-----------------------------------|--|
| Fields of application | Data center |
| Design | Subassembly |
| Mounting style | DCCS |
| Shielding | shielded |
| Transmission technology | Fiber optic |
| Wiring | crossed |
| Port numbering | yes |
| Color | green |
| Mode type of the fiber | Single mode |
| Fiber class | OS2 (IEC 60793-2-50 B.1.3, B6_b & ITU-T G.657.A2, G.657.B2, G.652.D) |
| Cable Type | Mini breakout |
| Number of cables/ cores | 1 |
| Number of fibres each cable/ wire | 12 |
| Shape | APC (Angled Physical Contact) |
| Fiber construction | 9/125 µm |
| Maximum length | 500.00 m |
| Special features | delivery with serial number and 12 attenuation measurement reports |

Transmission characteristics

| | |
|---------------------------------|--------------|
| Transmission rate up to 10 GBit | IEEE 802.3an |
| Reach | |
| Reach 1000BASE LX | 5000 m |
| Reach 10GBASE L | 10000 m |
| Reach 10GBASE EW/ER | 40000 m |
| Reach 40GBASE LR4 | 10000 m |
| Reach 100GBASE ER4 | 10000 m |



Technical Data

Connections/interfaces

| | |
|--|-------------|
| Connector technology interface 1 | E2000 DC |
| Connector technology interface 2 | E2000 DC |
| Number of ports interface 1 | 6 |
| Number of ports interface 2 | 6 |
| Number of equipped ports interface 1 | 6 |
| Number of ports interface 2 equipped | 6 |
| Number of ports with dust protection interface 2 | 6 |
| Cable sheath diameter (min. - max.) | |
| Cable sheath diameter | 6.5 mm |
| Cable sheath diameter | 0.25591 in. |

Electrical characteristics

| | |
|--|------------|
| Attenuation of the fiber in the cable at 1310 nm | 0.38 dB/km |
| Attenuation of the fiber in the cable at 1383 nm | 0.38 dB/km |
| Attenuation of the fiber in the cable at 1550 nm | 0.38 dB/km |
| Attenuation of the fiber in the cable at 1625 nm | 0.38 dB/km |

Mechanical characteristics

| | |
|---|--------------------------|
| Strain relief | Kabelbinder + Kevlarband |
| Maximum installation load | 50.00 mm |
| Maximum installation load | 1.97 in. |
| Maximum operating bending radius | 100.00 mm |
| Maximum operating bending radius | 3.94 in. |
| 10 turns on a mandrel R= 15 mm, @ 1550 nm | 0.03 dB |
| 1 turn on a mandrel R= 7.5 mm, @ 1550 nm | 0.5 dB |

Materials and material properties

| | |
|----------------------------|----------------------------|
| Material - Coupler housing | Plastics |
| Material - Housing | sheet steel |
| Material - Housing finish | Zn (zinc) |
| Material - Sleeve | ZrO ₂ , slotted |
| Bend insensitivity | yes |



Technical Data

Certifications

Gost Certification yes

Approvals

RoHS compliant

The product meets the following standards

Generic cabling systems

General requirements ISO/IEC 11801 | DIN EN 50173

Optical fibers: Indoor optical cables

Sectional specification for class B single-mode fibres ISO/IEC 60793-2-50 type B.1.3 & B6_b

Measurement of smoke density of cables burning ISO/IEC 61034-2

ITU-T standard G.657.A2, G.657.B2, G.652.D

Packing details

Type of packaging 1 pc(s) / Ring or drum



Accessories

| P/N | Designation |
|------------|--|
| 130D2B1B-E | DCCS2 BGT 19 inch 1RU subrack black |
| 130D2B1G-E | DCCS2 BGT 19 inch 1RU subrack light gray |



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Technical Data

| General Data | |
|-------------------------|--|
| Transmission technology | Fiber optic |
| Mode type of the fiber | Single mode |
| Fiber class | OS2 (IEC 60793-2-50 B.1.3, B6_b & ITU-T G.657.A2, G.657.B2, G.652.D) |
| Fiber construction | 9/125 µm |
| Special features | Ethernet Standard für 10GBase-T IEEE 802.3 incl. IEEE 802.3ae |

| Transmission characteristics | |
|---|--------------------------------------|
| Reach | |
| Reach 1000BASE LX | 5000 m |
| Reach 10GBASE L | 10000 m |
| Reach 10GBASE EW/ER | 40000 m |
| Reach 40GBASE LR4 | 10000 m |
| Reach 100GBASE ER4 | 10000 m |
| Chromatic dispersion coefficient | |
| Chromatischer Dispersionskoeffizient Im Intervall 1285 nm - 1330 nm (max.) | max. 3.7 ps/km * nm |
| Chromatic dispersion coefficient - At 1550 nm (max.) | max. 18.5 ps/km * nm |
| Chromatic dispersion coefficient - At 1625 nm (max.) | max. 23.0 ps/km * nm |
| Zero dispersion slope (max.) | max. 0.092 ps/(nm ² * km) |
| Polarisation mode dispersion (PMD) coefficient, cabled (min.) | min. 0.1 |
| Threshold wavelength (max.) | max. 1260 |

| Connections/interfaces | |
|---------------------------------------|----------------|
| Connector technology interface 1 | Free line end |
| Connector technology interface 2 | Free line end |
| Fiber cladding diameter | 125.0 ± 0.7 mm |
| Primärcoating-Durchmesser - gefärbt | 242 ± 7 ¼m |
| Primärcoating-Durchmesser - ungefärbt | 242 ± 7 ¼m |

| Electrical characteristics | |
|--|-----------------|
| Attenuation of the fiber in the cable at 1310 nm | max. 0.38 dB/km |
| Attenuation of the fiber in the cable at 1383 nm | max. 0.38 dB/km |
| Attenuation of the fiber in the cable at 1550 nm | max. 0.38 dB/km |

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Technical Data

Electrical characteristics

Attenuation of the fiber in the cable at 1625 nm max. 0.25 dB/km

Mechanical characteristics

| | |
|---|--|
| Proof stress level | min. 0.7 (~ 1 %) GPa |
| Strip force (peak) | 1.2 = F _{peak.strip} max. 8.9 N |
| 10 turns on a mandrel R= 15 mm, @ 1550 nm | max. 0.03 dB |
| 10 turns on a mandrel R= 15 mm, @ 1625 nm | max. 0.01 dB |
| 1 turn on a mandrel R= 10 mm, @ 1550 nm | max. 0.01 dB |
| 1 turn on a mandrel R= 15 mm, @ 1625 nm | max. 0.02 dB |
| 1 turn on a mandrel R= 7.5 mm, @ 1550 nm | max. 0.5 dB |
| 1 turn on a mandrel R= 7.5 mm, @ 1625 nm | max. 1.00 dB |
| Fiber cladding non-circularity | max. 0.7 % |
| Kern (MDF)-Mantel Konzentritätsfehler | max. 0.5 µm |
| Primary coating concentricity error | max. 5 % |
| Primärcoating-Mantel Konzentritätsfehler | max. 12 |
| Inhomogeneity of OTDR trace for any two 1000 metre fiber length | max. 0.1 dB/km |
| Group refractive index at 1310 and 1550 nm | 1.467 |
| Group refractive index at 1625 nm | 1.468 |
| Field width at 1310 nm | 8.8 ± 0.4 µm |
| Field width at 1550 nm | 9.8 ± 0.5 |

The product meets the following standards

| | |
|--|-------------------------------------|
| Generic cabling systems | |
| General requirements | ISO/IEC 11801 DIN EN 50173-1 |
| Industrial area | ISO/IEC 24702:2006 Kat. OS2 und OS1 |
| Optical fibers: Generic specification - basic test procedures for optical cables | |
| General and definitions | ISO/IEC 60794-1-20 |
| Mechanical Tests Methods | ISO/IEC 60794-1-21 |
| Optical fibers: Measuring methods and test procedures | |
| Fibre proof test | ISO/IEC 60793-1-30 |
| Coating strippability | ISO/IEC 60793-1-32 |
| Attenuation | ISO/IEC 60793-1-40 |
| Chromatic dispersion | ISO/IEC 60793-1-42 |
| Grenzwellenlänge | ISO/IEC 60793-1-44 |

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Technical Data**The product meets the following standards**

Optical fibers: Measuring methods and test procedures

Mode field diameter ISO/IEC 60793-1-45

Macrobending loss ISO/IEC 60793-1-47

Polarization mode dispersion ISO/IEC 60793-1-48

Optical fibers: Indoor optical cables

Sectional specification for class B single-mode fibres ISO/IEC 60793-2-50 type B.1.3 & B6_b

ITU-T standard G.657.A2, G.657.B2, G.652.D

TIA/ANSI-492 AAAB