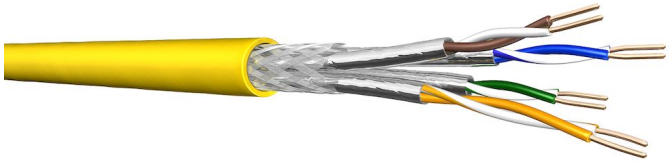
UC^{FUTURE} C22 C8.2 S/FTP 4P LSHF-FR D$_{ca}$

Data horizontal cable Cat.8.2 S/FTP



Dca
CPR

CABLE FEATURES

Draka installation cable for indoor use UC FUTURE C22 C8.2 S/FTP 4P LSHF-FR Dca

- Copper data cable of Cat8.2 for structured cabling with a bandwidth of 2000 MHz.
- The cable is double-shielded with foil pair shielding and high-quality braided cover.
- The 4-pair simplex installation cable with 8 copper wires AWG22 is suitable for the connection of sockets, patch fields and modules, also with IDC technology, for installation in buildings, in ducts and flush-mounted
- the product exceeds the requirements of EN50173-1; EN50288-9-1, ISO/IEC11801; IEC61156-9; IEC61156-7 and IEEE802.3af/at/bt.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1; IEC60332-3-24; IEC60754-2; IEC61034; EN50399 and Euro fire class Dca s2 d1 a1.
- With a coupling attenuation of 85 dB, the shielding fulfills segregation class D according to EN50174.
- The cable is future-proof for all applications according to Class C, D, E, EA, F and FA and suitable for operating PoE and PoE+ over a channel length of up to 100m. It is suitable for the following applications: Telephony, Ethernet, Fast Ethernet, Gigabit Ethernet and 10Gigabit Ethernet, 10BaseT, 100BaseT, 1000BaseT, 1GBase-T, 10GBaseT as well as 25GBaseT and 40GBaseT up to 30m.

Latest version of this data sheet is available for download: ProductFamily238710

GENERAL INFO

Primary (Campus), Secondary (Riser), Tertiary (Horizontal); IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; IEEE802.5 ; ISDN, TPDDI, ATM, CATV, IP Cameras, Broadband Video, SOHO-Cabling; Power over Ethernet (PoE) / Type 1-4

CERTIFICATIONS AND DESIGN STANDARDS

ISO/IEC 11801	Generic telecom cabling for customer premises
IEC 61156-5	Datacom cables
IEEE 802.3 af/at/bt	Power over Ethernet (PoE) / Type 1-4 according to IEEE 802.3 af/at/bt

CABLE CONSTRUCTION

Conductor category	Class 1 = solid
Conductor material	Copper
Conductor surface	Bare
AWG size	22
Core insulation material	Foam-skin-PE
Nominal diameter over insulation [mm]	1.5
Screen over stranding element	Foil
Number of stranding elements	4
Identification of stranding elements	Core colors: blue/white; orange/white; green/white; brown/white
Screen material	Copper, tinned
Screen over stranding	Braiding
Material outer sheath	Halogenfree polymer
Cable shape	Round
Nominal outer diameter [mm]	8.4

APPLICATION PROPERTIES

Operation temperature (min) [°C]	-20	(max) [°C]	60
Installation temperature (min) [°C]	0	(max) [°C]	50
Bending radius (rule)	Installation: 8 x outer diameter; Installed: 4 x outer diameter		

FIRE PROPERTIES

Flame retardant	In accordance with EN/IEC 60332-3-24
Halogen free	acc. IEC/EN 60754-1/2
Low smoke	acc. IEC/EN 61034-2
Reaction-to-fire class (acc. EN 13501-6)	Dca
Smoke development class (acc. EN 13501-6)	s2
Euro class flaming droplets/particles (acc. EN 13501-6)	d1
Euro class acidity (acc. EN 13501-6)	a1
Fire load [MJ/km]	675
DOP number	1000966

ELECTRICAL PROPERTIES

Test voltage [kV]	1
Category	Other
NVP value [%]	79
Propagation delay (max) [ns/100m]	427
Delay skew (max) [ns/100m]	12
Characteristic impedance [Ohm]	100
Nominal mutual capacitance [pF/m]	43
Loop resistance [Ohm]	110
Coupling attenuation [dB]	85
Insulation resistance [MΩ·km]	5,000
Transfer impedance at 10 MHz [mOhm/m]	5
Segregation classification (acc. EN 50174-2)	d

draka
A Prysmian Brand

CAT 8.2 TRANSMISSION CHARACTERISTICS (AT 20°C)

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ACRF (dB/100m)	PS-ACRF (dB)	Return Loss (dB)
1	1.7	100	97	98	95	100	97	23
4	3.2	100	97	97	94	97	94	25
10	5.1	100	97	95	92	95	92	25
16	6.4	100	97	94	91	90	87	30
20	7.1	100	97	93	90	90	87	30
31.2	8.9	100	97	91	88	90	87	29
62.5	12.7	100	97	87	84	90	87	27
100	16	100	97	84	81	90	87	25
155	20	95	92	75	72	88	85	24
200	22.8	93	90	70	67	84	81	23
250	25.5	91	88	66	63	83	80	22
300	28	90	87	62	59	81	78	22
600	40	86	83	46	43	80	77	20
1000	52.1	82	79	30	27	75	72	20
1200	57.2	81	78	24	21	73	70	19
1500	64.3	80	77	16	13	66	63	18
1600	68.4	79	76	11	8	65	62	18
2000	78.1	75	72	-3	-6	59	56	18

PRODUCT ORDER DATA

Product name	Nominal outer diameter [mm]	Max. tensile strength during installation [kN]	Copper weight [kg/km]	SAP code	Packaging type	Standard packaging quantity	Gross weight
UC FUTURE COMPACT22 Cat8.2 S/FTP 4P LSHF-FR Dca	8.4	0.15	47	60030331	Drum	1	83.2
UC FUTURE COMPACT22 Cat8.2 S/FTP 4P LSHF-FR Dca	8.4	0.15	47	60050652	Drum	500	41.7
UC FUTURE COMPACT22 Cat8.2 S/FTP 4P LSHF-FR Dca	8.4	0.15	47	60050259	Drum	1,000	83.2