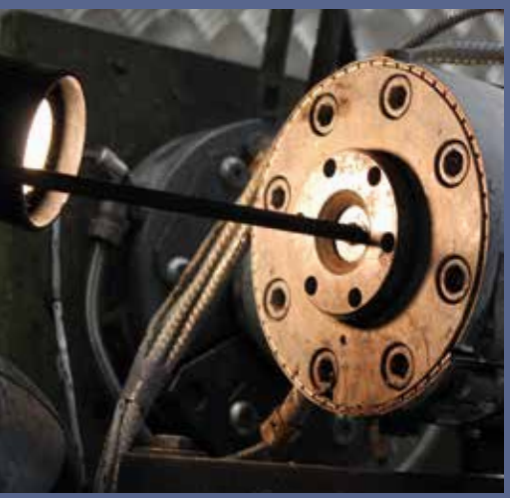
Let´s connect – with Draka cables

Innovative cables for communication networks

Draka

A Brand of Prysmian Group

PRYSMIAN GROUP - #1 CABLE MAKER IN THE WORLD



Prysmian Group

Linking the Future

DRAKA CABLE: PART OF THE PRYSMIAN GROUP

The Prysmian Group is the global market leader in power and telecommunications cables and systems. With over 140 years of experience, a turnover of over 11 billion euros and around with 30.000 employees in 50 countries and 112 operating sites, the Group is strongly positioned in high-tech markets. It supplies a highly comprehensive range of products, services, technology and know-how.

In the energy sector, Prysmian Group is active in underground and submarine cabling and systems, special cables for applications in many different industrial sectors, and medium and low voltage cables for the construction and infrastructure industries.

For the telecommunications sector, the Group manufactures cables and accessories for the voice, video and data transmission industries and offers a complete range of fibre optic and copper cables and interconnection systems. Prysmian is a Milan-listed company and listed on the FTSE MIB index.

Further information at http://www.prysmiangroup.com

MULTIMEDIA AND CORPORATE NETWORKS

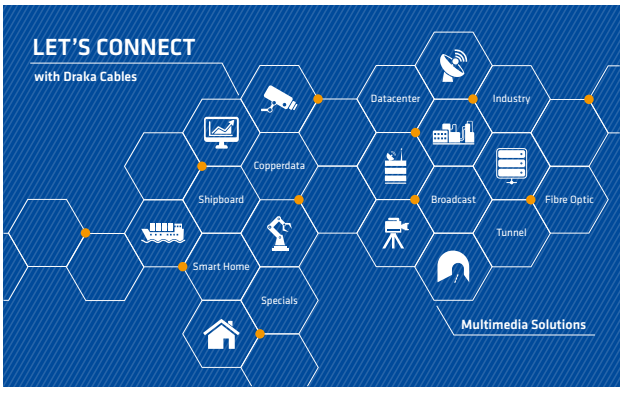
The fact that information is always and everywhere accessible is now widely expected. That's why Prysmian deals with everything related to cables for private communication networks and supports wholesalers, resellers and original equipment manufacturers with solutions that meet both current and future requirements with maximum reliability and flexibility.

Our Multimedia Solutions business unit produces and sells fibre optic, coaxial and copper cables. From cables for TV and film studios and wide area communication for rail networks and in tunnels to light signals, switch drives and mobile communication, we focus on innovation to lay the foundation for future communication solutions today.

Although everyone uses a mobile phone these days, the vast majority of applications still run on wired infrastructures.

Our Multimedia Solutions division develops, produces and sells copper and fibre optic cables that can be used for almost any communication application in this area.

Whether you need network solutions to run your business or you are a wholesaler, reseller or OEM looking to use our products and solutions, we can help you meet current and future needs with greater bandwidth, longer life, superior reliability and other benefits.



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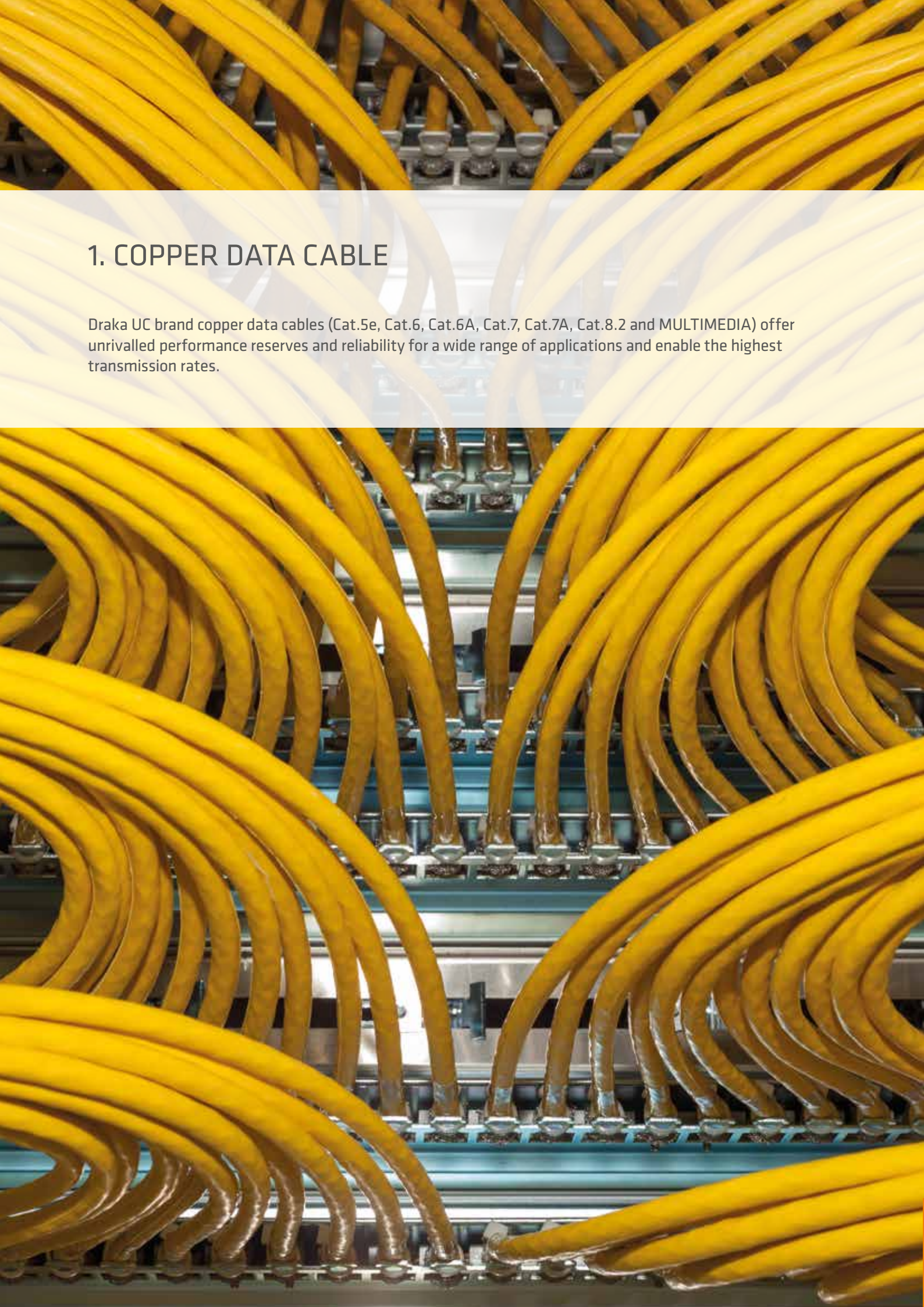
1. COPPER DATA CABLE

Draka UC brand copper data cables (Cat.5e, Cat.6, Cat.6A, Cat.7, Cat.7A, Cat.8.2 and MULTIMEDIA) offer unrivalled performance reserves and reliability for a wide range of applications and enable the highest transmission rates.



COPPER DATA CABLE

Installation cable

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UC^{FUTURE} COMPACT22 Cat.8.2 S/FTP 2000MHz

S/FTP AWG22/1

Areas of application / Applicable standards

Related to system standards:
Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; 40GBase-T
Cat. 8 ; Cat8.1 ; Cat8.2, ISDN, TPDDI, ATM, CATV, Broadband Video, SOHO-Cabling, Power over Ethernet (PoE) Type 1 -4
Based on component standards for cables:
IEC 61156-9; EN 50288-12-1

Cable structure

Conductor	Cu-wire, bare, AWG 22
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer jacket	LSHF-FR D_{ca} - $B2_{ca}$ / FRNC-C, Yellow RAL1021
Outer diameter	8.5 mm

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „D“	

Electrical data at 20°C

	System cut-off frequency at 2000MHz
Attenuation	78.1 dB
NEXT	75.0 dB
PS-NEXT	81.0 dB
ACR-N	-3.0 dB
PS-ACR	-6.0 dB
ACR-F	59.0 dB
PS-ACR-F	56.0 dB
Return Loss	18.0 dB

Nominal Velocity of Propagation approx. 79%.

Flame retardancy

Euro class according to EN 50399	$B2_{ca}$ s1a d1 a1, C_{ca} s1a d1 a1, D_{ca} s1 d1 a1
IEC	IEC60332-3-24; IEC60754-2; IEC 61034; IEC60332-1

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC^{FUTURE} COMPACT22 Cat.8.2 S/FTP 4P LSHF-FR $B2_{ca}$	60066016	$B2_{ca}$ s1a d1 a1
UC^{FUTURE} COMPACT22 Cat.8.2 4P S/FTP LSHF-FR $B2_{ca}$ 500DW	60086625	$B2_{ca}$s1a1d1
UC^{FUTURE} COMPACT22 Cat.8.2 S/FTP 4P LSHF-FR C_{ca}	60060913	C_{ca} s1a d1 a1
UC^{FUTURE} COMPACT22 Cat.8.2 S/FTP 4P LSHF-FR	60030331	D_{ca} s1 d1 a1
UC^{FUTURE} COMPACT22 Cat.8.2 4P S/FTP LSHF-FR 500DW	60050562	D_{ca} s1 d1 a1
UC^{FUTURE} COMPACT22 Cat.8.2 4P S/FTP LSHF-FR 1000DW	60050259	D_{ca} s1 d1 a1

UC1500 SS22 Cat.7$_A$ LSHF-FR

S/FTP AWG22/1

Areas of application / Applicable standards

Related to system standards:
Multimedia installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173-1, ISO/IEC 11801, Power over Ethernet (PoE) Type 1 -4
Based on component standards for cables:
prEN 50288-9-1, IEC 61156-5, IEC 61156-7

Cable structure

Conductor	Cu-wire, bare, AWG 22
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Overall screen	Copper braiding, tinned
Outer jacket	LSHF-FR / FRNC-C, melon yellow RAL1028, duplex design with separating bar
Outer diameter	B2$_{ca}$ 7.9mm); C$_{ca}$ & D$_{ca}$ 7.6mm (7.6mm/15.4mm)

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „D“	

Electrical data at 20°C

	System cut-off frequency at 1000MHz	Cable bandwidth at 1500MHz
Attenuation	54.0 dB	66.0 dB
NEXT	83.0 dB	80.0 dB
PS-NEXT	80.0 dB	77.0 dB
ACR-N	29.0 dB	14.0 dB
PS-ACR	26.0 dB	11.0 dB
ELFEXT	40.0 dB	28.0 dB
PS-ELFEXT	37.0 dB	25.0 dB
Return Loss	19.0 dB	15.0 dB

Nominal Velocity of Propagation approx. 79%.

Flame retardancy

Euro class according to EN 50399	B2$_{ca}$ s1a d1 a1, C$_{ca}$ s1a d1 a1, D$_{ca}$ s1 d1 a1
LSHF/ FRNC	IEC60332-3-24; IEC60754-2; IEC 61034; IEC60332-1

External quality monitoring

GHMT PVP, 3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC1500 SS22 Cat.7$_A$ S/FTP 4P LSHF-FR B2$_{ca}$	60069436	B2$_{ca}$ s1a d1 a1
UC1500 SS22 Cat.7$_A$ S/FTP 4P LSHF-FR B2$_{ca}$ 500DW	60070974	B2$_{ca}$ s1ad1a1
UC1500 SS22 Cat.7$_A$ S/FTP 4P LSHF-FR B2$_{ca}$ 1000DW	60069437	B2$_{ca}$ s1a d1 a1
UC1500 SS22 Cat.7$_A$ S/FTP 4P LSHF-FR C$_{ca}$	60065547	C$_{ca}$ s1a d1 a1
UC1500 SS22 Cat.7$_A$ S/FTP 4P LSHF-FR C$_{ca}$ 500DW	60070971	C$_{ca}$ s1ad1a1
UC1500 SS22 Cat.7$_A$ S/FTP 4P LSHF-FR C$_{ca}$ 1000DW	60065571	C$_{ca}$ s1a d1 a1
UC1500 SS22 Cat.7$_A$ S/FTP 2x4P LSHF-FR C$_{ca}$ 500DW	60066425	C$_{ca}$ s1ad1a1
UC1500 SS22 Cat.7$_A$ S/FTP 4P LSHF-FR	60045751	D$_{ca}$ s1 d1 a1
UC1500 SS22 Cat7$_A$ S/FTP 4P LSHF-FR 200BR	60049911	D$_{ca}$ s1 d1 a1
UC1500 SS22 Cat.7$_A$ S/FTP 4P LSHF-FR 500DW	60048194	D$_{ca}$ s1 d1 a1
UC1500 SS22 Cat.7$_A$ S/FTP 4P LSHF-FR 1000DW	60045752	D$_{ca}$ s1 d1 a1
UC1500 SS22 Cat.7$_A$ S/FTP 2x4P LSHF-FR	60046077	D$_{ca}$ s1 d1 a1
UC1500 SS22 Cat.7$_A$ S/FTP 2x4P LSHF-FR 500DW	60046078	D$_{ca}$ s1 d1 a1
UC1500 SS22 Cat.7$_A$ S/FTP 2x4P LSHF-FR 500DW	60046078	D$_{ca}$ s1 d1 a1

UC1500 HS22 Cat.7$_A$ LSHF

S/FTP AWG22/1

Areas of application / Applicable standards

Related to system standards:
Multimedia installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173-1, ISO/IEC 11801, Power over Ethernet (PoE) Type 1 -4
Based on component standards for cables:
IEC 61156-5; iEC61156-7; EN50288-9-1; IEEE 802.3af; IEEE 802.3at, IEEE 802.3bt

Cable structure

Conductor	Cu-wire, bare, AWG 22
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Overall screen	Copper braiding, tinned
Outer jacket	LSHF / FRNC, melon yellow RAL1028, duplex construction with separating bar
Outer diameter	7.6mm, (7.6mm/15.2mm)

Electrical data at 20°C

	System cut-off frequency at 1000MHz	Cable bandwidth at 1500MHz
Attenuation	54.0 dB	66.0 dB
NEXT	83.0 dB	80.0 dB
PS-NEXT	80.0 dB	77.0 dB
ACR-N	29.0 dB	14.0 dB
PS-ACR-N	26.0 dB	11.0 dB
ACR-F	40.0 dB	28.0 dB
PS-ACR-F	37.0 dB	25.0 dB
Return Loss	19.0 dB	15.0 dB

Nominal Velocity of Propagation approx. 79%.

Flame retardancy

Euro class according to EN 50399	D_{ca} s2d1a1
IEC	IEC 60332-1; IEC 60754-2; IEC 61034

Shielding properties

Transfer impedance	at 1 MHz	12 mΩ/m
	at 10 MHz	10 mΩ/m Grade 2
	at 30 MHz	30 mΩ/m
Coupling attenuation	80 dB Type II Disconnection class according to EN 50174-2 „D“	

External quality monitoring

GHMT PVP, 3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC1500 HS22 C7A S/FTP 4P LSHF	60088553	D_{ca} s2d1a1
UC1500 HS22 C7A S/FTP 4P LSHF 50RW	60088515	D_{ca} s2d1a1
UC1500 HS22 C7A S/FTP 4P LSHF 100RW	60088512	D_{ca} s2d1a1
UC1500 HS22 C7A S/FTP 4P LSHF 250DW	60088514	D_{ca} s2d1a1
UC1500 HS22 C7A S/FTP 4P LSHF 500DW	60088513	D_{ca} s2d1a1
UC1500 HS22 C7A S/FTP 4P LSHF 1000DW	60088363	D_{ca} s2d1a1
UC1500 HS22 C7A S/FTP 2x4P LSHF	60088552	D_{ca} s2d1a1
UC1500 HS22 C7A S/FTP 2x4P LSHF 500DW	60088517	D_{ca} s2d1a1

UC1200 SS23 Cat.7$_A$ LSHF-FR

S/FTP AWG23/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) Type 1 -4
Based on component standards for cables:
EN 50288-9-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer jacket	LSHF-FR D_{ca} - $B2_{ca}$ / FRNC-C melon yellow RAL1028 duplex construction with separating bar
Outer diameter	7.9mm ($B2_{ca}$, C_{ca}), 7.5mm (D_{ca})

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „D“	

Electrical data at 20°C

	System cut-off frequency at 1000MHz	Cable bandwidth at 1200MHz
Attenuation	58.5 dB	63.4 dB
NEXT	82.0 dB	81.0 dB
PS-NEXT	79.0 dB	78.0 dB
ACR-N	24.0 dB	19.0 dB
PS-ACR-N	21.0 dB	16.0 dB
ACR-F	57.0 dB	52.0 dB
PS-ACR-F	54.0 dB	49.0 dB
Return Loss	19.0 dB	17.0 dB

Nominal Velocity of Propagation approx. 79%.

Flame retardancy

Euro class according to EN 50399	$B2_{ca}$ s1a d1 a1, C_{ca} s1a d1 a1, D_{ca} s1 d1 a1
LSHF/ FRNC	IEC60332-3-24; IEC60754-2; IEC 61034; IEC60332-1

External quality monitoring

GHMT PVP, 3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC1200 SS23 Cat.7$_A$ S/FTP 4P LSHF-FR $B2_{ca}$	60066428	$B2_{ca}$ s1a d1 a1
UC1200 SS23 Cat.7$_A$ S/FTP 4P LSHF-FR C_{ca}	60060846	C_{ca} s1a d1 a1
UC1200 SS23 Cat.7$_A$ S/FTP 2x4P LSHF-FR C_{ca}	60066426	C_{ca} s1a d1 a1
UC1200 SS23 Cat.7$_A$ S/FTP 4P LSHF-FR	60015755	D_{ca} s1 d1 a1
UC1200 SS23 Cat.7$_A$ S/FTP 4P LSHF-FR	60011129	D_{ca} s1 d1 a1
UC1200 SS23 Cat.7$_A$ S/FTP 2x4P LSHF-FR	60015880	D_{ca} s1 d1 a1
UC1200 SS23 Cat.7$_A$ S/FTP 2x4P LSHF-FR	60015885	D_{ca} s1 d1 a1

UC1200 HS23 Cat.7$_A$ LSHF

S/FTP AWG23/1

Areas of application / Applicable standards

BRelated to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) Type 1 -4
Based on component standards for cables:
EN 50288-9-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer jacket	LSHF / FRNC melon yellow RAL1028 duplex construction with divider
Outer diameter	7.5mm, (7.5mm/15.1mm)

Shielding properties

Transfer impedance	at 1 MHz	12 mΩ/m
	at 10 MHz	10 mΩ/m Grade 1
	at 30 MHz	30 mΩ/m
Coupling attenuation	80 dB Type 2 Disconnection class according to EN 50174-2 „D“	

Electrical data at 20°C

	System cut-off frequency at 1000MHz	Cable bandwidth at 1200MHz
Attenuation	58.5 dB	63.4 dB
NEXT	82.0 dB	81.0 dB
PS-NEXT	79.0 dB	78.0 dB
ACR-N	24.0 dB	19.0 dB
PS-ACR-N	21.0 dB	16.0 dB
ACR-F	57.0 dB	52.0 dB
PS-ACR-F	54.0 dB	49.0 dB
Return Loss	19.0 dB	17.0 dB

Nominal Velocity of Propagation approx. 79%.

Flame retardancy

Euro class according to EN 50399	D_{ca} s2d1a1
LSHF/ FRNC	IEC60332-1; IEC60754-2; IEC 61034

External quality monitoring

3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC1200 HS23 C7A S/FTP 4P LSHF	60088595	D_{ca} s2d1a1
UC1200 HS23 C7A S/FTP 4P LSHF 500DW	60088518	D_{ca} s2d1a1
UC1200 HS23 C7A S/FTP 4P LSHF 1000DW	60088364	D_{ca} s2d1a1
UC1200 HS23 C7A S/FTP 2x4P LSHF	60088594	D_{ca} s2d1a1
UC1200 HS23 C7A S/FTP 2x4P LSHF 500DW	60088516	D_{ca} s2d1a1

UC900 SS23 Cat.7 LSHF-FR

S/FTP AWG23/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Suitable for HDBase-T, Power over Ethernet (PoE) Type 1 -4
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer jacket	LSHF-FR D_{ca} - $B2_{ca}$ / FRNC-C orange RAL 2003
Outer diameter	$B2_{ca}$ 7.4mm; C_{ca} 7.3mm (7.4mm / 15.00mm)

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „D“	

Electrical data at 20°C

	System cut-off frequency at 600MHz	Cable bandwidth at 1000MHz
Attenuation	44.0 dB	63.1 dB
NEXT	85.0 dB	80.0 dB
PS-NEXT	82.0 dB	77.0 dB
ACR-N	40.0 dB	17.0 dB
PS-ACR-N	37.0 dB	14.0 dB
ACR-F	61.0 dB	57.0 dB
PS-ACR-F	58.0 dB	54.0 dB
Return Loss	22.0 dB	20.0 dB

Nominal Velocity of Propagation approx. 79%.

Flame retardancy

Euro class according to EN 50399	$B2_{ca}$ s1a d1 a1, C_{ca} s1a d1 a1
IEC	IEC60332-3-24; IEC60754-2; IEC 61034; IEC60332-1

External quality monitoring

GHMT PVP, 3P, DNV GL

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC900 SS23 Cat.7 S/FTP 4P $B2_{ca}$ s1a d1a1	60070792	$B2_{ca}$ s1a d1a1
UC900 SS23 Cat.7 S/FTP 4P $B2_{ca}$ s1a d1a1 1000DW	60070793	$B2_{ca}$ s1a d1a1
UC900 SS23 Cat.7 S/FTP 4P C_{ca} s1a d1a1 1000DW	60060629	C_{ca} s1a d1a1
UC900 SS23 Cat.7 S/FTP 2x4P C_{ca} s1a d1a1	60065309	C_{ca} s1a d1a1
UC900 SS23 Cat.7 S/FTP 2x4P C_{ca} s1a d1a1 500DW	60065310	C_{ca} s1a d1a1

UC900 HS23 Cat.7 LSHF

S/FTP AWG23/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Suitable for HDBase-T, Power over Ethernet (PoE) Type 1 -4
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer jacket	LSHF / FRNC orange RAL 2003, duplex design with separating bar
Outer diameter	7.3 mm, (7.3mm/14.8mm)

Shielding properties

Transfer impedance	at 1 MHz	12 mΩ/m
	at 10 MHz	10 mΩ/m Grade 2
	at 30 MHz	30 mΩ/m
Coupling attenuation	80 dB Type 2 Disconnection class according to EN 50174-2 „D“	

Electrical data at 20°C

	System cut-off frequency at 600MHz	Cable bandwidth at 1000MHz
Attenuation	44.0 dB	63.1 dB
NEXT	85.0 dB	80.0 dB
PS-NEXT	82.0 dB	77.0 dB
ACR-N	40.0 dB	17.0 dB
PS-ACR-N	37.0 dB	14.0 dB
ACR-F	61.0 dB	57.0 dB
PS-ACR-F	58.0 dB	54.0 dB
Return Loss	22.0 dB	20.0 dB

Nominal Velocity of Propagation approx. 79%.

Flame retardancy

Euro class according to EN 50399	D_{ca} s2 d1 a1, E_{ca}
IEC	IEC60332-1; IEC60754-2; IEC 61034

External quality monitoring

GHMT PVP, 3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC900 HS23 Cat.7 S/FTP 4P LSHF	60060183	D_{ca} s2 d1 a1
UC900 HS23 Cat.7 S/FTP 4P LSHF Dca 100RW	60089476	D_{ca} s2 d1 a1
UC900 HS23 Cat.7 S/FTP 4P LSHF Dca 500DW	60060185	D_{ca} s2 d1 a1
UC900 HS23 Cat.7 S/FTP 4P LSHF Dca 1000DW	60060184	D_{ca} s2 d1 a1
UC900 HS23 Cat.7 S/FTP 2x4P LSHF Dca	60060188	D_{ca} s2 d1 a1
UC900 HS23 Cat.7 S/FTP 2x4P LSHF Dca 500DW	60060189	D_{ca} s2 d1 a1
UC900 HS23 Cat.7 S/FTP 4P LSHF	60011263	E_{ca}
UC900 HS23 Cat.7 S/FTP 4P LSHF 50RW	60015558	E_{ca}
UC900 HS23 Cat.7 S/FTP 4P LSHF 100RW	60011605	E_{ca}
UC900 HS23 Cat.7 S/FTP 4P LSHF 250DW	60015556	E_{ca}
UC900 HS23 Cat.7 S/FTP 4P LSHF 500DW	60011603	E_{ca}
UC900 HS23 Cat.7 S/FTP 4P LSHF 500DP	60013208	E_{ca}
UC900 HS23 Cat.7 S/FTP 4P LSHF 1000DW	60011604	E_{ca}
UC900 HS23 Cat.7 S/FTP 2x4P LSHF	60015444	E_{ca}
UC900 HS23 Cat.7 S/FTP 2x4P LSHF 100DW	60013181	E_{ca}
UC900 HS23 Cat.7 S/FTP 2x4P LSHF 250DW	60044144	E_{ca}
UC900 HS23 Cat.7 S/FTP 2x4P LSHF 500DW	60013180	E_{ca}
UC900 HS23 Cat.7 S/FTP 2x4P LSHF 1000DW	60015449	E_{ca}

UC500 AS23 Cat.6_A LSHF (FR)

S/FTP AWG23/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-10-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil, patented winding by two pairs each, tinned AWG26 two-wire
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Advanced screen: Aluminium-coated plastic composite foil, tinned AWG26 two-wire
Outer jacket	LSHF D_{ca}, blue RAL 5024 duplex design with separator
Outer diameter	7.5 mm (C_{ca}), 7.1 mm (D_{ca}, E_{ca})

Shielding properties

Transfer impedance	at 1 MHz	50 mΩ/m
	at 10 MHz	100 mΩ/m Grade 2
	at 30 MHz	200 mΩ/m
Coupling attenuation	55 dB Type 2 Disconnection class according to EN 50174-2 „C“	

Electrical data at 20°C

	System cut-off frequency at 500MHz
Attenuation	44.8 dB
NEXT	85.0 dB
PS-NEXT	82.0 dB
ACR-N	40.0 dB
PS-ACR-N	37.0 dB
ACR-F	61.0 dB
PS-ACR-F	58.0 dB
Return Loss	22.0 dB

Nominal Velocity of Propagation approx. 79%.

Flame retardancy

Euro class according to EN 50399	C_{ca} s1a d1 a1, D_{ca} s2 d2 a1, E_{ca}
IEC	IEC60332-3-24; IEC60754-2; IEC 61034; IEC60332-1

External quality monitoring

3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC500 AS 23 C6A F/FTP 4P LSHF-FR C_{ca} s1ad1a1	60075874	C_{ca} s1 d1 a1
UC500 AS 23 C6A F/FTP 4P LSHF-FR C_{ca} s1ad1a1 305BR	60094555	C_{ca} s1 d1 a1
UC500 AS 23 C6A F/FTP 4P LSHF-FR C_{ca} s1ad1a1 500DW	60075875	C_{ca} s1 d1 a1
UC500 AS 23 C6A F/FTP 4P LSHF-FR C_{ca} s1ad1a1 1000DW	60088531	C_{ca} s1 d1 a1
UC500 AS 23 C6A F/FTP 2x4P LSHF-FR C_{ca} s1ad1a1 500DW	60093073	C_{ca} s1 d1 a1
UC500 AS 23 C6A F/FTP 2x4P LSHF-FR C_{ca} s1ad1a1 1000DW	60093164	C_{ca} s1 d1 a1
UC500 AS 23 C6A F/FTP 4P LSHF D_{ca}	60060190	D_{ca} s2 d2 a1
UC500 AS 23 C6A F/FTP 4P LSHF D_{ca} 500DW	60060421	D_{ca} s2 d2 a1
UC500 AS 23 C6A F/FTP 4P LSHF D_{ca} 1000DW	60060422	D_{ca} s2 d2 a1
UC500 AS 23 C6A F/FTP 2x4P LSHF D_{ca}	60060423	D_{ca} s2 d2 a1
UC500 AS 23 C6A F/FTP 2x4P LSHF D_{ca} 500DW	60060424	D_{ca} s2 d2 a1
UC500 AS 23 C6A F/FTP 2x4P LSHF D_{ca} 1000DW	60060425	D_{ca} s2 d2 a1
UC500 AS 23 C6A F/FTP 4P LSHF	60009617	E_{ca}
UC500 AS 23 C6A F/FTP 4P LSHF 500DW	60011268	E_{ca}
UC500 AS 23 C6A F/FTP 4P LSHF 1000DW	60011267	E_{ca}
UC500 AS 23 C6A F/FTP 2x4P LSHF	60015718	E_{ca}
UC500 AS 23 C6A F/FTP 2x4P LSHF 500DW	60015721	E_{ca}
UC500 AS 23 C6A F/FTP 2x4P LSHF 1000DW	60015722	E_{ca}

UC500 S23 Cat.6A U/FTP

S/FTP AWG23/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-10-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil, patented winding by two pairs each, tinned AWG26 two-wire
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Cu-braid tin-plated
Outer jacket	LSHF C_{ca}- D_{ca}, blue RAL 5024 Duplex sheath: two cables in parallel with separating bar
Outer diameter	6.8 mm; Duplex 6.9mm/14.0mm

Shielding properties

Transfer impedance	at 1 MHz	50 mΩ/m
	at 10 MHz	100 mΩ/m Grade 2
	at 30 MHz	200 mΩ/m
Coupling attenuation	55 dB Type 2 Disconnection class according to EN 50174-2 „C“	

Electrical data at 20°C

	System cut-off frequency at 500MHz
Attenuation	44.8 dB
NEXT	85.0 dB
PS-NEXT	82.0 dB
ACR-N	40.0 dB
PS-ACR-N	37.0 dB
ACR-F	61.0 dB
PS-ACR-F	58.0 dB
Return Loss	22.0 dB

Nominal Velocity of Propagation approx. 79%.

Flame retardancy

Euro class according to EN 50399	C_{ca} s1a d1 a1 , D_{ca} s2 d2 a1
IEC	IEC60332-3-24*(C_{ca}); IEC60754-2; IEC 61034; IEC60332-1

External quality monitoring

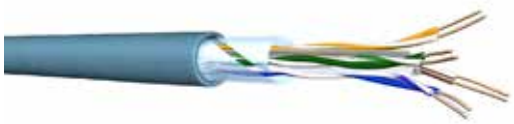
3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC500 S23 C6A U/FTP 4P LSHF-FR C_{ca}	60091628	C_{ca} s1a d1 a1
UC500 S23 C6A U/FTP 4P LSHF-FR C_{ca} 500DW	60091629	C_{ca} s1a d1 a1
UC500 S23 C6A U/FTP 4P LSHF-FR C_{ca} 1000DW	60091630	C_{ca} s1a d1 a1
UC500 S23 C6A U/FTP 4P LSHF-FR C_{ca} 305BR	60091631	C_{ca} s1a d1 a1
UC500 S 23 C6A U/FTP 2x4P LSHF-FR C_{ca} 500DW	60062332	C_{ca} s1a d1 a1
UC500 S23 C6A U/FTP 4P LSHF D_{ca}	60015537	D_{ca} s2 d2 a1
UC500 S23 C6A U/FTP 4P LSHF D_{ca} 305BR	60011113	D_{ca} s2 d2 a1
UC500 S23 C6A U/FTP 4P LSHF D_{ca} 500DW	60011412	D_{ca} s2 d2 a1
UC500 S23 C6A U/FTP 4P LSHF D_{ca} 1000DW	60011413	D_{ca} s2 d2 a1
UC500 S23 C6A U/FTP 2x4P LSHF D_{ca}	60015554	D_{ca} s2 d2 a1
UC500 S23 C6A U/FTP 2x4P LSHF D_{ca} 500DW	60015555	D_{ca} s2 d2 a1
UC500 S23 C6A U/FTP 2x4P LSHF D_{ca} 500DP	60015557	D_{ca} s2 d2 a1

UC500 23 Cat.6A U/UTP Z1s

S/FTP AWG23/1



Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-10-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Stranding to the core	4 pairs to the core non-metallic separator in the core (spline)
Overall screen	Advanced screen: Aluminium-coated plastic composite foil, tinned AWG26 two-wire
Trennschicht	Patented 10G foil
Outer jacket	LSHF C_{ca}- E_{ca}, blue RAL 5024
Outer diameter	7.7 mm (D_{ca} , E_{ca}); 7.8mm C_{ca}

Shielding properties

Transfer impedance	at 1 MHz	50 mΩ/m
	at 10 MHz	100 mΩ/m Grade 2
	at 30 MHz	200 mΩ/m
Coupling attenuation	55 dB Type 2 Disconnection class according to EN 50174-2 „C“	

Electrical data at 20°C

	System cut-off frequency at 500MHz
Attenuation	45.3 dB
NEXT	33.8 dB
PS-NEXT	30.8 dB
ACR-F	13.8 dB
PS-ACR-F	10.8 dB
Return Loss	17.3 dB

Nominal Velocity of Propagation approx. 66%

Flame retardancy

Euro class according to EN 50399	C_{ca} s1a d1 a1, D_{ca} s2 d2 a1, E_{ca}
IEC	IEC60332-3-24*(C_{ca}); IEC60754-2; IEC 61034; IEC60332-1

External quality monitoring

3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC500 23 U/UTP Cat.6A Z1s LSHF C_{ca}	60091342	C_{ca} s1a d1 a1
UC500 23 U/UTP Cat.6A Z1s LSHF D_{ca}	60047176	D_{ca} s2 d2 a1
UC500 23 U/UTP Cat.6A Z1s LSHF E_{ca}	60027810	E_{ca}

UC400 HS23 Cat.6 S/FTP LSHF (FR)

S/FTP AWG23/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-5-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil, patented winding by two pairs each, tinned AWG26 two-wire
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Cu-braid tin-plated
Outer jacket	LSHF D_{ca}, , blue RAL 5024 duplex design with separator
Outer diameter	6.8 mm, (6.9mm/14.0mm)

Shielding properties

Transfer impedance	at 1 MHz	12 mΩ/m
	at 10 MHz	10 mΩ/m Grade 2
	at 30 MHz	30 mΩ/m
Coupling attenuation	80 dB Type 2 Disconnection class according to EN 50174-2 „d“	

Electrical data at 20°C

	System cut-off frequency at 250MHz	Cable bandwidth at 400MHz
Attenuation	28.1 dB	38.3 dB
NEXT	90.0 dB	87.0 dB
PS-NEXT	87.0 dB	84.0 dB
ACR-N	62.0 dB	48.0 dB
PS-ACR-N	59.0 dB	45.0 dB
ACR-F	69.0 dB	64.0 dB
PS-ACR-F	66.0 dB	61.0 dB
Return Loss	24.0 dB	23.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	D_{ca} s2 d2 a1, E_{ca}
IEC	IEC60332-3-24; IEC60754-2; IEC 61034; IEC60332-1

External quality monitoring

3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC400 HS23 C6 S/FTP 4P LSHF-FR D_{ca}	60035124	D_{ca} s2 d2 a1
UC400 HS23 C6 S/FTP 4P LSHF-FR D_{ca} 1000DW	60035125	D_{ca} s2 d2 a1
UC400 HS23 C6 S/FTP 4P LSHF 100RW	60013268	E_{ca}
UC400 HS23 C6 S/FTP 4P LSHF 200DW	60013269	E_{ca}
UC400 HS23 C6 S/FTP 4P LSHF 500DW	60011577	E_{ca}
UC400 HS23 C6 S/FTP 4P LSHF 1000DW	60011578	E_{ca}
UC400 HS23 C6 S/FTP 4P LSHF	60011579	E_{ca}
UC400 HS23 C6 S/FTP 4P PVC GY	60015243	E_{ca}
UC400 HS23 C6 S/FTP 4P PVC 500DW	60010961	E_{ca}
UC400 HS23 C6 S/FTP 2x4P LSHF	60015313	E_{ca}
UC400 HS23 C6 S/FTP 2x4P LSHF 100DW	60015320	E_{ca}
UC400 HS23 C6 S/FTP 2x4P LSHF 500DW	60013169	E_{ca}
UC400 HS23 C6 S/FTP 2x4P LSHF 1000DW	60015318	E_{ca}

UC400 S23 Cat.6 LSHF

U/UTP Installationskabel

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-5-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare Ø 0.5
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Stranding to the core	4 pairs to the core non-metallic separator in the core (spline)
Stranding to the core	4 pairs (PiMF) to the core
Pair shield	Aluminium-coated plastic composite foil, patented winding by two pairs each, tinned AWG26 two-wire
Outer jacket	LSHF C_{ca}- E_{ca}, blue RAL 5012 duplex design with separator
Outer diameter	6.5 mm (D_{ca}, E_{ca}) 6.8mm C_{ca}

Shielding properties

Transfer impedance	at 1 MHz	50 mΩ/m
	at 10 MHz	100 mΩ/m Grade 2
	at 30 MHz	200 mΩ/m
Coupling attenuation	55 dB Type 2 Disconnection class according to EN 50174-2 „C“	

Electrical data at 20°C

	System cut-off frequency at 250MHz	Cable bandwidth at 400MHz
Attenuation	28.1 dB	38.3 dB
NEXT	90.0 dB	87.0 dB
PS-NEXT	87.0 dB	84.0 dB
ACR-N	62.0 dB	48.0 dB
PS-ACR-N	59.0 dB	45.0 dB
ACR-F	69.0 dB	64.0 dB
PS-ACR-F	66.0 dB	61.0 dB
Return Loss	24.0 dB	23.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	C_{ca} s1a d1 a1 , D_{ca} s2 d2 a1, E_{ca}
IEC	IEC60754-2; IEC 61034; IEC60332-1

External quality monitoring

3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC400 S23 C6 U/FTP LSHF-FR C_{ca}s1ad1a1 4P	60091748	C_{ca} s1a d1 a1
UC400 S 23 C6 U/FTP 4P LSHF-FR C_{ca} s1ad1a1 305BR	60091750	C_{ca} s1a d1 a1
UC400 S23 C6 U/FTP LSHF-FR C_{ca}s1ad1a1 4P 500DW	60091992	C_{ca} s1a d1 a1
UC400 S23 C6 U/FTP LSHF-FR C_{ca}s1ad1a1 4P 1000DW	60091749	C_{ca} s1a d1 a1
UC400 S23 C6 U/FTP 4P LSHF D_{ca}	60011511	D_{ca} s2 d2 a1
UC400 S23 C6 U/FTP 4P LSHF D_{ca} 100RW	60013265	D_{ca} s2 d2 a1
UC400 S23 C6 U/FTP 4P LSHF D_{ca} 305BR	60011510	D_{ca} s2 d2 a1
UC400 S23 C6 U/FTP 4P LSHF D_{ca} 500DW	60011508	D_{ca} s2 d2 a1
UC400 S23 C6 U/FTP 4P LSHF D_{ca} 1000DW	60011509	D_{ca} s2 d2 a1
UC400 S23 C6 U/FTP 2x4P LSHF D_{ca}	60015492	D_{ca} s2 d2 a1
UC400 S23 C6 U/FTP 2x4P LSHF D_{ca} 100DW	60015498	D_{ca} s2 d2 a1
UC400 S23 C6 U/FTP 2x4P LSHF D_{ca} 500DW	60015494	D_{ca} s2 d2 a1
UC400 S23 C6 U/FTP 2x4P LSHF D_{ca} 1000DW	60015496	D_{ca} s2 d2 a1
UC400 S23 C6 U/FTP 4P PVC	60011497	E_{ca}
UC400 S23 C6 U/FTP 4P PVC 100RW	60015233	E_{ca}
UC400 S23 C6 U/FTP 4P PVC 305DW	60026453	E_{ca}
UC400 S23 C6 U/FTP 4P PVC 500DP	60015236	E_{ca}
UC400 S23 C6 U/FTP 4P PVC 500 DW	60010675	E_{ca}
UC400 S23 C6 U/FTP 4P PVC 1000 DW	60010674	E_{ca}
UC400 S23 C6 U/FTP 4P PVC GY	60015238	E_{ca}
UC400 S23 C6 U/FTP 4P PVC GY 305DW	60027214	E_{ca}
UC400 S23 C6 U/FTP 4P PVC GY 500DW	60010959	E_{ca}
UC400 S23 C6 U/FTP 4P PVC GY 1000DW	60010960	E_{ca}

UC400 23 Cat.6 U/UTP $B2_{ca}$ & C_{ca}

U/UTP Installationskabel

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-5-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare Ø 0.56 mm
Insulation	Foam-Skin Polyethylen
Stranding	2 cores to pair
Stranding to the core	4 pairs to the core non-metallic separator in the core (spline)
Outer jacket	LSHF $B2_{ca}$ & C_{ca}, blue RAL 5012 duplex sheathing
Outer diameter	6.1 mm ($B2_{ca}$); 5.9mm C_{ca}

Shielding properties

Coupling attenuation	≥ 40 dB Type 3

Electrical data at 20°C

	System cut-off frequency at 250MHz	Cable bandwidth at 400MHz
Attenuation	33.0 dB	41.7 dB
NEXT	38.0 dB	39.0 dB
PS-NEXT	35.0 dB	36.0 dB
ACR-F	20.0 dB	30.0 dB
PS-ACR-F	17.0 dB	27.0 dB
Return Loss	17.3 dB	

Nominal Velocity of Propagation approx. 67 %

Flame retardancy

Euro class according to EN 50399	$B2_{ca}$ s1a d1 a1, C_{ca} s1a d1 a1
IEC	IEC60754-2; IEC 61034; IEC60332-1, IEC60332-3-24

External quality monitoring

3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC400 23 C6 U/UTP 4P LSHF D65 $B2_{ca}$ 305BR	60094525	$B2_{ca}$ s1a d1 a1
UC400 23 C6 U/UTP 4P LSHF D65 $B2_{ca}$ BU 500DW	60080761	$B2_{ca}$ s1a d1 a1
UC400 23 C6 U/UTP 4P LSHF D65 $B2_{ca}$ BU 1000DW	60080772	$B2_{ca}$ s1a d1 a1
UC400 23 C6 U/UTP 4P LSHF D64 C_{ca} BU 250DW	60077095	C_{ca} s1a d1 a1
UC400 23 C6 U/UTP 4P LSHF D64 C_{ca} BU 305BR	60077082	C_{ca} s1a d1 a1
UC400 23 C6 U/UTP 4P LSHF D64 C_{ca} BU 500DW	60077083	C_{ca} s1a d1 a1
UC400 23 C6 U/UTP 4P LSHF D64 C_{ca} BU 1000DW	60078193	C_{ca} s1a d1 a1

UC400 Cat.6 U/UTP HD LSHF

U/UTP Installationskabel

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-5-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare Ø 0.54
Insulation	Foam-Skin Polyethylen
Stranding	2 cores to pair
Stranding to the core	4 pairs to the core non-metallic separator in the core (spline)
Outer jacket	LSHF D_{ca}, blue RAL 5012
Outer diameter	5.4 mm (D_{ca}, E_{ca})

Electrical data at 20°C

	System cut-off frequency at 250MHz	Cable bandwidth at 400MHz
Attenuation	28.1 dB	38.3 dB
NEXT	90.0 dB	87.0 dB
PS-NEXT	87.0 dB	84.0 dB
ACR-N	62.0 dB	48.0 dB
PS-ACR-N	59.0 dB	45.0 dB
ACR-F	69.0 dB	64.0 dB
PS-ACR-F	66.0 dB	61.0 dB
Return Loss	24.0 dB	23.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	D_{ca} s2 d2 a1, E_{ca}
IEC	IEC 60754-2; IEC 61034; IEC 60332-1

Shielding properties

Coupling attenuation	40 dB Type 3 Disconnection class according to EN 50174-2 „B“

External quality monitoring

3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC400 Cat.6 U/UTP HD LSHF D_{ca} BU	60052641	D_{ca} s2 d2 a1
UC400 Cat.6 U/UTP HD LSHF D_{ca} BU 305BR	60052665	D_{ca} s2 d2 a1
UC400 Cat.6 U/UTP HD 4P LSHF D_{ca} 500DW	60052646	D_{ca} s2 d2 a1
UC400 Cat.6 U/UTP HD 4P LSHF (Bu)	60029779	E_{ca}
UC400 Cat.6 U/UTP HD 4P LSHF (Bu) 305BR	60010360	E_{ca}
UC400 Cat.6 U/UTP HD 4P LSHF (Bu) 500DW	60025990	E_{ca}
UC400 Cat.6 U/UTP HD 4P PVC (Bu) 305BR	6001036	E_{ca}
UC400 Cat.6 U/UTP HD 4P PVC (Bu) 500DW	60026614	E_{ca}
UC400 Cat.6 U/UTP HD 4P PVC (Bu) 1000DW	60026616	E_{ca}

UC300 HS24 Cat.5e SF/UTP

SF/UTP AWG24/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-2-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 24
Insulation	Foam-Skin Polyethylen
Stranding	2 cores to pair
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Aluminium-coated plastic composite foil and Copper braiding, tinned
Outer jacket	LSHF-FR D_{ca}, E_{ca} grey RAL 7035 duplex design with separator
	Divider
Outer diameter	6.8 mm, (6.8mm/14.8mm)

Shielding properties

Transfer impedance	at 1 MHz	12 mΩ/m
	at 10 MHz	10 mΩ/m Grade 2
	at 30 MHz	30 mΩ/m
Coupling attenuation	80 dB Type 2 Disconnection class according to EN 50174-2 „d“	

Electrical data at 20°C

	System cut-off frequency at 100MHz	Cable bandwidth at 300MHz
Attenuation	19.8 dB	32.0 dB
NEXT	41.0 dB	34.0 dB
PS-NEXT	38.0 dB	31.0 dB
ACR-N	21.2 dB	2.0 dB
PS-ACR-N	18.2 dB	
ACR-F	28.0 dB	16.0 dB
PS-ACR-F	25.0 dB	13.0 dB
Return Loss	20.0 dB	

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	D_{ca} s2 d2 a1, E_{ca}
IEC	IEC 60332-3-24; IEC 60754-2; IEC 61034; IEC 60332-1

External quality monitoring

3P, DNV GL

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC300 HS24 Cat.5e SF/UTP 4P LSHF-FR D_{ca}	60061333	D_{ca} s2 d2 a1
UC300 HS24 Cat.5e SF/UTP 4P LSHF-FR D_{ca} 500DP	60064235	D_{ca} s2 d2 a1
UC300 HS24 Cat.5e SF/UTP 4P LSHF-FR D_{ca} 1000DW	60061334	D_{ca} s2 d2 a1
UC300 HS24 Cat.5e SF/UTP 2x4P LSHF-FR D_{ca}	60061335	D_{ca} s2 d2 a1
UC300 HS24 Cat.5e SF/UTP 2x4P LSHF-FR D_{ca} 500DW	60061336	D_{ca} s2 d2 a1
UC300 HS24 C5e SF/UTP 4P PVC 500DP	60013164	E_{ca}
UC300 HS24 C5e SF/UTP 2x4P PVC 500DP	60017479	E_{ca}
UC300 HS24 C5e SF/UTP 4P LSHF	60009618	E_{ca}
UC300 HS24 C5e SF/UTP 4P LSHF 50RW	60024745	E_{ca}
UC300 HS24 C5e SF/UTP 4P LSHF 100RW	60013237	E_{ca}
UC300 HS24 C5e SF/UTP 4P LSHF 250RW	60024746	E_{ca}
UC300 HS24 C5e SF/UTP 4P LSHF 500DW	60011496	E_{ca}
UC300 HS24 C5e SF/UTP 4P LSHF 1000DW	60009201	E_{ca}
UC300 HS24 C5e SF/UTP 4P LSHF 6000DW	60017493	E_{ca}
UC300 HS24 C5e SF/UTP 2x4P LSHF	60029665	E_{ca}
UC300 HS24 C5e SF/UTP 2x4P LSHF 100DW	60017490	E_{ca}
UC300 HS24 C5e SF/UTP 2x4P LSHF 500DW	60017491	E_{ca}
UC300 HS24 C5e SF/UTP 2x4P LSHF 1000DW	60017492	Eca

UC300 S24 Cat.5e F/UTP

F/UTP AWG24/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-2-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 24
Insulation	Foam-Skin Polyethylen
Stranding	2 cores to pair
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Aluminium-coated plastic composite foil, two-wire AWG26 tin-plated
Outer jacket	LSHF D_{ca}, E_{ca} grey RAL 7035 duplex design with divider
Outer diameter	5.9 mm, (5.9mm/12.0mm)

Shielding properties

Transfer impedance	at 1 MHz	50 mΩ/m
	at 10 MHz	100 mΩ/m Grade 2
	at 30 MHz	200 mΩ/m
Coupling attenuation	55 dB Type 2 Disconnection class according to EN 50174-2 „c"	

Electrical data at 20°C

	System cut-off frequency at 100MHz	Cable bandwidth at 300MHz
Attenuation	19.8 dB	32.0 dB
NEXT	41.0 dB	34.0 dB
PS-NEXT	38.0 dB	31.0 dB
ACR-N	21.2 dB	2.0 dB
PS-ACR-N	18.2 dB	
ACR-F	28.0 dB	16.0 dB
PS-ACR-F	25.0 dB	13.0 dB
Return Loss	20.0 dB	

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	D_{ca} s2 d2 a1, E_{ca}
IEC	IEC 60754-2; IEC 61034; IEC 60332-1

External quality monitoring

3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC300 S24 Cat.5e F/UTP LSHF D_{ca}	60061112	D_{ca} s2 d2 a1
UC300 S24 Cat.5e F/UTP LSHF D_{ca} 100R	60061113	D_{ca} s2 d2 a1
UC300 S24 Cat.5e F/UTP LSHF D_{ca} 305BR	60061196	D_{ca} s2 d2 a1
UC300 S24 Cat.5e F/UTP LSHF D_{ca} 500DW	60061114	D_{ca} s2 d2 a1
UC300 S24 Cat.5e F/UTP LSHF D_{ca} 1000DW	60061115	D_{ca} s2 d2 a1
UC300 S24 C5e F/UTP 4P PVC	60013161	E_{ca}
UC300 S24 Cat.5e F/UTP 4P PVC 100RW	60013162	E_{ca}
UC300 S24 C5e F/UTP 4P PVC 305BR	60011026	E_{ca}
UC300 S24 C5e F/UTP 4P PVC 500DW	60011258	E_{ca}
UC300 S24 C5e F/UTP 4P PVC 500DP	60017466	E_{ca}
UC300 S24 C5e F/UTP 4P PVC 1000DW	60011257	E_{ca}
UC300 S24 C5e F/UTP 2x4P PVC	60017483	E_{ca}
UC300 S24 C5e F/UTP 2x4P PVC 500DP	60017484	E_{ca}
UC300 S24 C5e F/UTP 2x4P PVC 500DW	60017485	E_{ca}
UC300 S24 C5e F/UTP 2x4P PVC 1000DP	60017486	E_{ca}
UC300 S24 C5e F/UTP 4P LSHF	60011537	E_{ca}
UC300 S24 C5e F/UTP 4P LSHF 100RW	60013227	E_{ca}
UC300 S24 C5e F/UTP 4P LSHF 305BR	60011534	E_{ca}
UC300 S24 Cat.5e F/UTP 4P LSHF 500DW	60011536	E_{ca}
UC300 S24 C5e F/UTP 4P LSHF 1000DW	60011535	E_{ca}
UC300 S24 C5e F/UTP 4P LSHF BU 305BR	60011704	E_{ca}
UC300 S24 C5e F/UTP 4P LSHF BU 1000DW	60011709	E_{ca}
UC300 S24 C5e F/U 2X4P LSHF	60016039	E_{ca}
UC300 S24 C5e F/U 2X4P LSHF 100DW	60016042	E_{ca}
UC300 S24 C5e F/UTP 2x4P LSHF 500DW	60017488	E_{ca}
UC300 S24 C5e F/UTP 2x4P LSHF 1000DP	60017489	E_{ca}

UC300 24 Cat.5e U/UTP

U/UTP AWG24/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-3-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 24
Insulation	Foam-Skin Polyethylen
Stranding	2 cores to pair
Stranding to the core	4 pairs (PiMF) to the core
Outer jacket	LSHF D_{ca}, E_{ca} grey RAL 7035 duplex design with divider
Outer diameter	5.0 mm, (5.0mm/10.0mm)

Electrical data at 20°C

	System cut-off frequency at 100MHz	Cable bandwidth at 300MHz
Attenuation	19.8 dB	32.0 dB
NEXT	41.0 dB	34.0 dB
PS-NEXT	38.0 dB	31.0 dB
ACR-N	21.2 dB	2.0 dB
PS-ACR-N	18.2 dB	
ACR-F	28.0 dB	16.0 dB
PS-ACR-F	25.0 dB	13.0 dB
Return Loss	20.0 dB	

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	D_{ca} s2 d2 a1, E_{ca}
IEC	IEC 60332-1; IEC 60754-2; IEC 61034

Shielding properties

Transfer impedance	at 1 MHz	50 mΩ/m
	at 10 MHz	100 mΩ/m Grade 2
	at 30 MHz	200 mΩ/m
Coupling attenuation	40 dB Type 3 Disconnection class according to EN 50174-2 „b“	

External quality monitoring

3P

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC300 24 Cat.5e U/UTP LSHF D_{ca}	60060056	D_{ca} s2 d2 a1
UC300 24 Cat.5e U/UTP LSHF D_{ca} 305BR	60060061	D_{ca} s2 d2 a1
UC300 24 Cat.5e U/UTP LSHF D_{ca} 500DW	60060063	D_{ca} s2 d2 a1
UC300 24 Cat.5e U/UTP LSHF D_{ca} 1000DW	60060062	D_{ca} s2 d2 a1
UC300 24 C5e U/UTP 4P PVC	60011254	E_{ca}
UC300 24 C5e U/UTP 4P PVC 100RW	60016130	E_{ca}
UC300 24 C5e U/UTP 4P PVC 305BR	60011062	E_{ca}
UC300 24 C5e U/UTP 4P PVC 500DW	60011253	E_{ca}
UC300 24 C5e U/UTP 4P PVC 1000DW	60011255	E_{ca}
UC300 24 C5e U/UTP 4P PVC 500DP	60017476	E_{ca}
UC300 24 C5e U/UTP 4P PVC 1000DP	60017477	E_{ca}
UC300 24 C5e U/UTP 4P PVC 2000DP	60017478	E_{ca}
UC300 24 C5e U/UTP 4P PVC 5000DW	60016135	E_{ca}
UC300 24 C5e U/UTP 2x4P PVC	60017480	E_{ca}
UC300 24 C5e U/UTP 2x4P PVC 500DP	60017481	E_{ca}
UC300 24 C5e U/UTP 2x4P PVC 500DW	60017482	E_{ca}
UC300 24 C5E U/UTP LSHF	60026275	E_{ca}
UC300 24 C5e U/UTP LSHF 305BR	60011512	E_{ca}
UC300 24 C5e U/UTP LSHF 500DW	60011514	E_{ca}
UC300 24 C5e U/UTP LSHF 500DP	60017464	E_{ca}
UC300 24 C5e U/UTP LSHF 1000DW	60011513	E_{ca}
UC300 24 C5e U/UTP LSHF 1000DP	60017465	E_{ca}
UC300 24 C5e U/UTP LSHF BU 305BR	60011703	E_{ca}
UC300 24 C5e U/UTP 2x4P LSHF 500DP	60017487	E_{ca}

UC^{FUTURE} COMPACT26/7 Cat.8.2 S/FTP Patch

S/FTP AWG26/7

PoE+

E$_{ca}$ CPR

Areas of application / Applicable standards

Related to system standards:
Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; 40GBase-T
ISDN, TPDDI, ATM, CATV, Broadband Video, SOHO-Cabling Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
IEC 61156-10; EN 50288-12-2

Cable structure

Conductor	Cu-wire, bare, AWG 26/7
Insulation	Foam-Skin Polyethylen Ø 1.1 mm
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer jacket	LSHF E$_{ca}$, Yellow RAL1021
Outer diameter	6.0 mm

Shielding properties

Transfer impedance	at 1 MHz	25 mΩ/m
	at 10 MHz	25 mΩ/m Grade 1
	at 30 MHz	30 mΩ/m
Coupling attenuation	70 dB	

Electrical data at 20°C

	System cut-off frequency at 2000MHz (100m)
Attenuation	136.0 dB
NEXT	70.0 dB
PS-NEXT	67.0 dB
ACR-N	-66.0 dB
PS-ACR-N	-69.0 dB
ACR-F	35.0 dB
PS-ACR-F	32.0 dB
Return Loss	15.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	E$_{ca}$
IEC	IEC60754-2; IEC 61034; IEC60332-1

External quality monitoring

GHMT

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC^{FUTURE} COMPACT26/7 Cat.8.2 S/FTP 4P Patch 1000W	60032047	E$_{ca}$

UC900 SS27 Cat.7 S/FTP Patch

S/FTP AWG27/7

PoE+

E_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
Connection and interconnection cable, IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, Power over Ethernet (PoE) / Type 1-4 **Based on component standards for cables:**
EN 50288-4-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 27/7
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer jacket	LSHF E_{ca}

Flame retardancy

Euro class according to EN 50399	E_{ca}
IEC	IEC60332-1; IEC60754-2; IEC 61034

Electrical data at 20°C

	System cut-off frequency at 600MHz	Cable bandwidth at 1000MHz
Attenuation (10m)	7.9 dB	10.2 dB
NEXT	75.0 dB	71.0 dB
PS-NEXT	72.0 dB	68.0 dB
ACR-N	67.0 dB	61.0 dB
ACR-F	44.0 dB	40.0 dB
PS-ACR-F	41.0 dB	37.0 dB
Return Loss	17.0 dB	
Nominal Velocity of Propagation approx. 79 %		

Shielding properties

Transfer impedance	at 1 MHz	10 mΩ/m
	at 10 MHz	10 mΩ/m
	at 30 MHz	30 mΩ/m
Coupling attenuation	85 dB	

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC900 SS27 C7 S/FTPp 4P LSHF GY no pr.	60015521	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GYnp 1000DW	60015525	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GYnp 1000DP	60015527	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF OG np	60015510	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF OG	60016131	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF OG 100RW	60016134	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF OG 500DW	60016136	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF OG 1000DW	60016141	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF BK no pr.	60015511	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF BK	60011273	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF BK 100RW	60016148	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF BK 500DW	60016151	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF BK 1000DW	60016153	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF RD np	60015513	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF RD	60016156	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF RD 100RW	60016159	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF RD 500DW	60016161	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF RD 1000DW	60016163	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GN no pr.	60015515	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GN	60016166	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GN 100RW	60016169	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GN 500DW	60016172	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GN 1000DW	60016175	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF BU no pr.	60015517	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF BU	60016178	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF BU 100RW	60016180	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF BU 500DW	60016182	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF BU 1000DW	60016185	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GY	60011272	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GY 100RW	60016191	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GY 500DW	60016195	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GY 1000DP	60016200	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GY 1000DW	60011271	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GY 50RW	60016203	E_{ca}
UC900 SS27 C7 S/FTPp 4P LSHF GY 25RW	60016206	E_{ca}

UC900 SS26 Cat.7 S/FTP Patch

S/FTP AWG26/7

PoE+

E_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
Connection and interconnection cable, IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, Power over **Ethernet (PoE) / Type 1-4 Based on component standards for cables:**
EN 50288-4-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 26/7
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer jacket	LSHF E_{ca}
Outer diameter	5.9 mm

Shielding properties

Transfer impedance	at 1 MHz	10 mΩ/m
	at 10 MHz	10 mΩ/m
	at 30 MHz	30 mΩ/m
Coupling attenuation	85 dB	

Electrical data at 20°C

	System cut-off frequency at 600MHz	Cable bandwidth at 1000MHz
Attenuation (10m)	6.8 dB	9.5 dB
NEXT	90.0 dB	80.0 dB
PS-NEXT	87.0 dB	77.0 dB
ACR-N	83.0 dB	70.0 dB
ACR-F	39.0 dB	
PS-ACR-F	36.0 dB	
Return Loss	20.0 dB	17.0 dB
Nominal Velocity of Propagation approx. 79 %		

Flame retardancy

Euro class according to EN 50399	E_{ca}
IEC	IEC60332-1; IEC60754-2; IEC 61034

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC900 SS26 C7 S/FTPp 4P LSHF GY	60015184	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF GY 500DW	60015185	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF GY 1000DW	60015187	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF WH 500DP	60015189	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF WH	60024725	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF BK	60047809	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF BK 1000DW	60047810	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF BU	60045840	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF BU 500DW	60045841	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF BU 1000DW	60045842	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF RD	60047915	E_{ca}
UC900 SS26 C7 S/FTPp 4P LSHF RD 1000DW	60047916	E_{ca}

UC500 S27 Cat.6A U/FTP Patch

U/FTP AWG27/7

PoE+

E_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-10-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 27/7
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil, patented wrapping around two pairs at a time
Stranding to the core	4 pairs (PiMF) to the core
Outer jacket	LSHF E_{ca}
Outer diameter	5.7 mm

Shielding properties

Transfer impedance	at 1 MHz	50 mΩ/m
	at 10 MHz	100 mΩ/m
	at 30 MHz	200 mΩ/m
Coupling attenuation	55 dB	

Electrical data at 20°C

	System cut-off frequency at 500MHz
Attenuation / 10m	7.3 dB
NEXT	46.0 dB
PS-NEXT	43.0 dB
ACR-F	40.0 dB
PS-ACR-F	37.0 dB
Return Loss	18.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	E_{ca}
IEC	IEC60332-1; IEC60754-2; IEC 61034

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC500 S27 C6A U/FTPp 4P LSHF BK	60015502	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF BK 500DW	60015503	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF BK 500DP	60015504	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF RD	60015505	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF RD 500DW	60015506	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF GN	60015507	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF GN 500DW	60015508	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF BU	60015509	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF BU 500DW	60015512	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF GY	60015514	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF GY 500DP	60015516	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF GY 1000DW	60015518	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF VT	60022009	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF VT 500DP	60015522	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF YE	60015524	E_{ca}
UC500 S27 C6A U/FTPp 4P LSHF YE 500DW	60015526	E_{ca}

UC400 S27 Cat.6 U/FTP Patch

U/FTP AWG27/7

PoE+

Areas of application / Applicable standards

Related to system standards:
Connection and interconnection cables for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-5-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 27/7
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil, patented wrapping around two pairs at a time
Stranding to the core	4 pairs (PiMF) to the core
Outer jacket	LSHF E_{ca}
Outer diameter	5.7 mm

Electrical data at 20°C

	System cut-off frequency at 250MHz	Cable bandwidth at 400MHz
Attenuation	5.1 dB	6.5 dB
NEXT	51.0 dB	48.0 dB
PS-NEXT	48.0 dB	45.0 dB
ACR-F	47.0 dB	43.0 dB
PS-ACR-F	44.0 dB	40.0 dB
Return Loss	20.0 dB	

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

IEC	IEC60332-1; IEC60754-2; IEC 61034

Shielding properties

Transfer impedance	at 1 MHz	50 mΩ/m
	at 10 MHz	100 mΩ/m
	at 30 MHz	200 mΩ/m
Coupling attenuation	55 dB	

Product Code Table

Product description	PG Article number
UC400 S27 C6 U/FTPp 4P LSHF YE	60011560
UC400 S27 C6 U/FTPp 4P LSHF YE 100RW	60015452
UC400 S27 C6 U/FTPp 4P LSHF YE 500DW	60015453
UC400 S27 C6 U/FTPp 4P LSHF YE 1000DW	60011559
UC400 S27 C6 U/FTPp 4P LSHF GY	60011572
UC400 S27 C6 U/FTPp 4P LSHF GY 100RW	60011571
UC400 S27 C6 U/FTPp 4P LSHF GY 500DW	60011569
UC400 S27 C6 U/FTPp 4P LSHF GY1000DW	60011570
UC400 S27 C6 U/FTPp 4P LSHF RD	60011564
UC400 S27 C6 U/FTPp 4P LSHF RD 100RW	60015431
UC400 S27 C6 U/FTPp 4P LSHF RD 500DW	60011563
UC400 S27 C6 U/FTPp 4P LSHF RD 1000DW	60015434
UC400 S27 C6 U/FTPp 4P LSHF BU	60011566
UC400 S27 C6 U/FTPp 4P LSHF BU 100RW	60015446
UC400 S27 C6 U/FTPp 4P LSHF BU 500DW	60011565
UC400 S27 C6 U/FTPp 4P LSHF BU 1000DW	60015448
UC400 S27 C6 U/FTPp 4P LSHF OG	60011562
UC400 S27 C6 U/FTPp 4P LSHF OG 1000DW	60015425
UC400 S27 C6 U/FTPp 4P LSHF BK	60011575
UC400 S27 C6 U/FTPp 4P LSHF BK 100RW	60011573
UC400 S27 C6 U/FTPp 4P LSHF BK 1000DW	60015428
UC400 S27 C6 U/FTPp 4P LSHF GN	60011568
UC400 S27 C6 U/FTPp 4P LSHF GN 500DW	60011567
UC400 S27 C6 U/FTPp 4P LSHF GN 100RW	60015438
UC400 S27 C6 U/FTPp 4P LSHF GN 1000DW	60015441

UC400 26 Cat.6 U/UTP Patch

SF/UTP AWG26/7

PoE+

Areas of application / Applicable standards

Related to system standards:
Connection and interconnection cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM;
Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-2-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 26
Insulation	Foam-Skin Polyethylen Ø 0.98 mm
Stranding	2 cores to pair
Stranding to the core	4 pairs (PiMF) to the core
Outer jacket	PVC or LSHF
Outer diameter	5.5 mm

Electrical data at 20°C

	System cut-off frequency at 250MHz	Cable bandwidth at 400MHz
Attenuation	4.9 dB	6.6 dB
NEXT	38.0 dB	37.0 dB
PS-NEXT	35.0 dB	34.0 dB
ACR-F	20.0 dB	20.0 dB
PS-ACR-F	17.0 dB	17.0 dB
Return Loss	17.0 dB	

Nominal Velocity of Propagation approx. 67 %

Flame retardancy

IEC	PVC: IEC 60332-1 LSHF(LSOH): IEC 60332-1; IEC 60754-2; IEC 61034

Shielding properties

Coupling attenuation	≥ 40 dB

Product Code Table

Product description	PG Article number
UC400 26 C6 U/FTPp 4P LSHF YE	60015344
UC400 26 C6 U/UTPp 4P LSHF OG	60015346
UC400 26 C6 U/UTPp 4P LSHF OG 500DP	60015348
UC400 26 C6 U/UTPp 4P LSHF BK	60015350
UC400 26 C6 U/UTPp 4P LSHF BK 500DP	60015351
UC400 26 C6 U/UTPp 4P LSHF RD	60015353
UC400 26 C6 U/UTPp 4P LSHF RD 500DP	60015355
UC400 26 C6 U/UTPp 4P LSHF GN	60015357
UC400 26 C6 U/UTPp 4P LSHF GN 500DP	60015359
UC400 26 C6 U/UTPp 4P LSHF BU	60015360
UC400 26 C6 U/UTPp 4P LSHF BU 500DP	60015411
UC400 26 C6 U/UTPp 4P LSHF YE	60015413
UC400 26 C6 U/UTPp 4P LSHF YE 500DP	60011408
UC400 26 C6 U/UTPp 4P LSHF GY	60011585
UC400 26 C6 U/UTPp 4P PVC GY 500DP	60011586
UC400 26 C6 U/UTPp 4P PVC GY	60015363
UC400 26 C6 U/UTPp 4P LSHF GY 500DP	60015344

UC300 HS26 Cat.5e SF/UTP Patch

SF/UTP AWG26/7

PoE+

Areas of application / Applicable standards

Related to system standards:
Connection and interconnection cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM;
Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-2-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 26/7
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Aluminium-coated plastic composite foil und Kup-fergeflecht, verzinnt
Outer jacket	LSHF / PVC E_{ca}
Outer diameter	5.7 mm

Electrical data at 20°C

	System cut-off frequency at 100MHz	Cable bandwidth at 300MHz
Attenuation	3.2 dB	4.8 dB
NEXT	41.0 dB	34.0 dB
PS-NEXT	38.0 dB	31.0 dB
ACR-F	28.0 dB	16.0 dB
PS-ACR-F	25.0 dB	13.0 dB
Return Loss	23.0 dB	

Nominal Velocity of Propagation approx. 67 %

Flame retardancy

IEC	IEC 60332-1; IEC 60754-2; IEC 61034

Shielding properties

Transfer impedance	at 1 MHz	12 mΩ/m
	at 10 MHz	10 mΩ/m
	at 30 MHz	30 mΩ/m
Coupling attenuation	75 dB	

Product Code Table

Product description	PG Article number
UC300 HS26 C5e SF/UTPp 4P LSHF GY	60011598
UC300 HS26 C5e SF/UTPp 4P LSHF GY 25RW	60015958
UC300 HS26 C5e SF/UTPp 4P LSHF GY 50RW	60015955
UC300 HS26 C5e SF/UTPp 4P LSHF GY 100RW	60011596
UC300 HS26 C5e SF/UTPp 4P LSHF GY 500DW	60015948
UC300 HS26 C5e SF/UTPp 4P LSHF GY 500DP	60015950
UC300 HS26 C5e SF/UTPp 4P LSHF GY 1000DW	60011597
UC300 HS26 C5e SF/UTPp 4P LSHF GN	60011595
UC300 HS26 C5e SF/UTPp 4P LSHF GN 100RW	60015925
UC300 HS26 C5e SF/UTPp 4P LSHF GN 500DW	60015929
UC300 HS26 C5e SF/UTPp 4P LSHF GN 1000DW	60015932
UC300 HS26 C5e SF/UTPp 4P LSHF RD	60015914
UC300 HS26 C5e SF/UTPp 4P LSHF RD 100RW	60015915
UC300 HS26 C5e SF/UTPp 4P LSHF RD 500DW	60015918
UC300 HS26 C5e SF/UTPp 4P LSHF RD 1000DW	60015920
UC300 HS26 C5e SF/UTPp 4P LSHF BU	60015935
UC300 HS26 C5e SF/UTPp 4P LSHF BU 100RW	60015938
UC300 HS26 C5e SF/UTPp 4P LSHF BU 500DW	60015941
UC300 HS26 C5e SF/UTPp 4P LSHF BU 1000DW	60015942
UC300 HS26 C5e SF/UTPp 4P LSHF YE	60015960
UC300 HS26 C5e SF/UTPp 4P LSHF YE 100RW	60015963
UC300 HS26 C5e SF/UTPp4P LSHF YE 500DW	60015965
UC300 HS26 C5e SF/UTPp 4P LSHF YE 1000DW	60015968
UC300 HS26 C5e SF/UTPp 4P LSHF BK	60015971
UC300 HS26 C5e SF/UTPp 4P LSHF BK 100RW	60015973
UC300 HS26 C5e SF/UTPp 4P LSHF BK 500DW	60015976
UC300 HS26 C5e SF/UTPp 4P LSHF BK 1000DW	60015978
UC300 HS26 C5e SF/UTPp 4P LSHF VT	60015980
UC300 HS26 C5e SF/UTPp 4P LSHF VT 1000DW	60015983
UC300 HS26 C5e SF/UTPp 4P PVC GY	60016540
UC300 HS26 C5e SF/UTPp 4P PVC GY 500DP	60016542

UC300 S26 Cat.5e F/UTP Patch

F/UTP AWG26/7

PoE+

Areas of application / Applicable standards

Related to system standards:
Connection and interconnection cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T;
IEEE 802.5 16 MB; ISDN; TPDDI; ATM;
Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-2-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 26/7
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Aluminium-coated plastic composite foil. Shunt strand AWG26 tin-plated
Outer jacket	LSHF / PVC E_{ca}
Outer diameter	5.6 mm

Electrical data at 20°C

	System cut-off frequency at 100MHz	Cable bandwidth at 300MHz
Attenuation	3.2 dB	4.8 dB
NEXT	41.0 dB	34.0 dB
PS-NEXT	38.0 dB	31.0 dB
ACR-F	28.0 dB	16.0 dB
PS-ACR-F	25.0 dB	13.0 dB
Return Loss	23.0 dB	

Nominal Velocity of Propagation approx. 67 %

Flame retardancy

IEC	IEC 60332-1; IEC 60754-2; IEC 61034

Shielding properties

Transfer impedance	at 1 MHz	50 mΩ/m
	at 10 MHz	100 mΩ/m
	at 30 MHz	200 mΩ/m
Coupling attenuation	55 dB	

Product Code Table

Product description	PG Article number
UC300 S26 C5e F/UTPp 4P PVC GY	60011368
UC300 S26 C5e F/UTPp 4P PVC GY 100RW	60015244
UC300 S26 C5e F/UTPp 4P PVC GY 500DW	60011367
UC300 S26 C5e F/UTPp 4P PVC GY 1000DW	60015246
UC300 S26 C5e F/UTPp 4P PVC BU	60011366
UC300 S26 C5e F/UTPp 4P PVC RD	60015234
UC300 S26 C5e F/UTPp 4P LSHF GY	60011615
UC300 S26 C5e F/UTPp 4P LSHF GY 100RW	60011613
UC300 S26 C5e F/UTPp 4P LSHF GY 500DW	60011612
UC300 S26 C5e F/UTPp 4P LSHF GY 1000DW	60011614
UC300 S26 C5e F/UTPp 4P LSHF GE	60011608
UC300 S26 C5e F/UTPp 4P LSHF GY 2500DP	60015786
UC300 S26 C5e F/UTPp 4P LSHF GE 100RW	60015751
UC300 S26 C5e F/UTPp 4P LSHF GE 500DW	60015754
UC300 S26 C5e F/UTPp 4P LSHF GE 1000DW	60015757
UC300 S26 C5e F/UTPp 4P LSHF RT	60011609
UC300 S26 C5e F/UTPp 4P LSHF RT 100RW	60015720
UC300 S26 C5e F/UTPp 4P LSHF RT 500DW	60015723
UC300 S26 C5e F/UTPp 4P LSHF RT 1000DW	60015725
UC300 S26 C5e F/UTPp 4P LSHF BU	60011610
UC300 S26 C5e F/UTPp 4P LSHF BU100RW	60015741
UC300 S26 C5e F/UTPp 4P LSHF BU 500DW	60015744
UC300 S26 C5e F/UTPp 4P LSHF BU1000DW	60015745
UC300 S26 C5e F/UTPp 4P LSHF GN	60011611
UC300 S26 C5e F/UTPp 4P LSHF GN 100RW	60015730
UC300 S26 C5e F/UTPp 4P LSHF GN 500DW	60015732
UC300 S26 C5e F/UTPp 4P LSHF GN 1000DW	60015735
UC300 S26 C5e F/UTPp 4P LSHF BK	60015759
UC300 S26 C5e F/UTPp 4P LSHF BK 100RW	60015762
UC300 S26 C5e F/UTPp 4P LSHF BK 500DW	60015765
UC300 S26 C5e F/UTPp 4P LSHF BK 1000DW	60015767
UC300 S26 C5e F/UTPp 4P LSHF OR	60015708
UC300 S26 C5e F/UTPp 4P LSHF OR 500DW	60015710
UC300 S26 C5e F/UTPp 4P LSHF OR 1000DW	60015714

UC300 26 Cat.5e U/UTP Patch

U/UTP AWG26/7

PoE+

Areas of application / Applicable standards

Related to system standards:
Connection and interconnection cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM, Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
EN 50288-3-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 26/7
Insulation	Foam-Skin Polyethylen
Stranding	2 cores to pair
Stranding to the core	4 pairs (PiMF) to the core
Outer jacket	LSHF / PVC E_{ca}
Outer diameter	5.2 mm

Electrical data at 20°C

	System cut-off frequency at 100MHz	Cable bandwidth at 300MHz
Attenuation	3.2 dB	4.8 dB
NEXT	41.0 dB	34.0 dB
PS-NEXT	38.0 dB	31.0 dB
ACR-F	28.0 dB	16.0 dB
PS-ACR-F	25.0 dB	13.0 dB
Return Loss	23.0 dB	

Nominal Velocity of Propagation approx. 67 %

Flame retardancy

IEC	IEC 60332-1; IEC 60754-2; IEC 61034

Shielding properties

Coupling attenuation	≥ 40 dB

Product Code Table

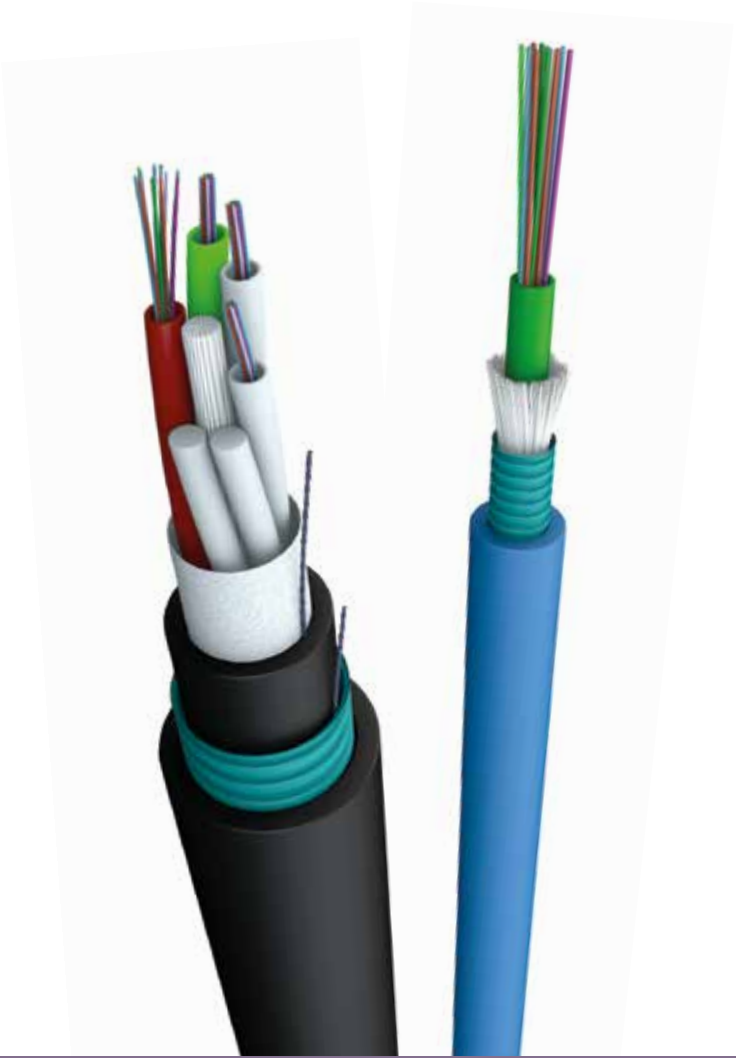
Product description	PG Article number
UC300 26 C5e U/UTPp 4P PVC GY	60015267
UC300 26 C5e U/UTPp 4P PVC GY 500DP	60011521
UC300 26 C5e U/UTPp 4P PVC GY 1000DP	60011522
UC300 26 C5e U/UTPp 4P LSHF GY	60016021
UC300 26 C5e U/UTPp 4P LSHF GY 500DP	60011411
UC300 26 C5e U/UTPp 4P LSHF GY 1000DP	60016025
UC300 26 C5e U/UTPp 4P LSHF RD	60016002
UC300 26 C5e U/UTPp 4P LSHF RD 500DP	60016005
UC300 26 C5e U/UTPp 4P LSHF GN	60016006
UC300 26 C5e U/UTPp 4P LSHF GN 500DP	60016008
UC300 26 C5e U/UTPp 4P LSHF GN 1000DP	60016011
UC300 26 C5e U/UTPp 4P LSHF BU	60016014
UC300 26 C5e U/UTPp 4P LSHF BU 500DP	60016016
UC300 26 C5e U/UTPp 4P LSHF BU 1000DP	60016019
UC300 26 C5e U/UTPp 4P LSHF YE	60016027
UC300 26 C5e U/UTPp 4P LSHF YE 500DP	60016029

2. FO DATA CABLE

Draka UC^{FIBRE} brand fibre optic cables support the latest transmission methods up to 400 Gbit & even 800 Gbit Ethernet and form the ideal basis for a future switch to these faster protocols. More and more users are turning to fibre optic technology for data transmission cables. It is the undisputed number one in today's Local Area Networks (LAN) - in building cabling and at the secondary level.

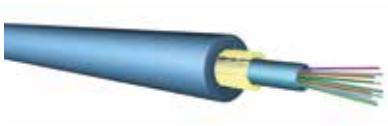
FO DATA CABLE

U-DQ(ZN)BH with central loose tube 3kN – E_{ca} & D_{ca} 36
U-DQ(ZN)BH 2x12 Bi-tube 3kN – E_{ca} & D_{ca} 37
U-DQ(ZN)BH with central loose tube 3kN – C_{ca} & $B2_{ca}$ 38
U-D(ZN)(SR)H with reinforced central loose tube – E_{ca} & D_{ca} & $B2_{ca}$ 39
A-DQ(ZN)B2Y & A-D(ZN)(SR)2Y with central loose tube 3kN 40
U-DQ(ZN)BH with stranded loose tubes 5kN – E_{ca} & D_{ca} 41
U-DQ(ZN)BH with stranded loose tubes 5kN – C_{ca} & $B2_{ca}$ 42
U-DQH(SR)H with armoured stranded loose tubes – E_{ca} & D_{ca} & $B2_{ca}$ 43
A-DQ(ZN)B2Y & A-DQ2Y(SR)2Y with stranded loose tubes 44
I-V(ZN)H Mini-Breakout – D_{ca} & C_{ca} 45
I-V(ZN)HH Break-Out – $B2_{ca}$, C_{ca}, D_{ca} & E_{ca} 46
I-V(ZN)HH Break-Out – D_{ca} & C_{ca} 46
U-V (ZN)H Mini-Breakout – E_{ca} 47
U-V (ZN)BH Mini-Breakout – D_{ca} 48
U-VQ(ZN)BH Mini-Breakout – C_{ca} & $B2_{ca}$ 49



UC^{FIBRE} U-DQ(ZN)BH

E10a (E_{ca})
Central loose tube 3000 N, 2-24 fibres



E_{ca} CPR

UC^{FIBRE} U-DQ(ZN)BH

E20 (D_{ca})
Central loose tube 3000 N, 2-24 fibres

D_{ca} CPR

Cable structure

	E10a (E_{ca})		E20 (D_{ca})	
Loose tube	ø2.8 mm gel-filled loose tube with 2-24 fibres			
Strain relief	Longitudinally watertight glass roving elements			
Sheath colours	Cables with all fibre types	Blue, RAL 5015	Cable with Singlemode Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
Outer sheath	1.5 mm FireBur® LSHF according to EN 50290-2-27		1.5 mm FireBur® LSHF according to EN 50290-2-27	

Standards

E10a (E_{ca})	E20 (D_{ca})
ISO 11801-1, EN 50173-1, IEC 60794-1	ISO 11801-1, EN 50173-1, IEC 60794-1
IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN50399 Class E_{ca}	IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class D_{ca}-s2-d2-a1, Class E_{ca}

Properties — IEC 60794-1-21/22

Properties	Test method	E10a (E_{ca})	E20 (D_{ca})
Outer diameter 2-24 fibres	-	7.3 mm	7.3 mm
Cable weight 2-24 fibres	-	55 kg/km	65 kg/km
Tensile strength, installation	E1	3000 N	3000 N
Tensile strength, permanent	E1	1000 N	1000 N
Transverse compressive strength	E3	3500 N / 100mm	3500 N / 100mm
Impact resistance	E4	20 Nm	20 Nm
Torsional strength	E7	5 cycles ± 1 revolution	5 cycles ± 1 revolution
Min. bending radius, installation	E11	R = 146 mm	R = 146 mm
Min. bending radius, permanent	-	R = 73 mm	R = 73 mm
Temperature range	F1	Storage: -40°C to +70°C Installation: -20°C to +60°C Operation: -30°C to +70°C	Storage: -40°C to +60°C Installation: -15°C to +40°C Operation: -30°C to +70°C
Longitudinal watertightness	F5B	Passed	Passed

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1
E10a	E_{ca}	UC^{FIBRE} I/O CT LSHF 3kN	4	60011297	60019165	60060672	60011347
	E_{ca}	UC^{FIBRE} I/O CT LSHF 3kN	6	60026796	60019179	E10a-6-OM5	60019357
	E_{ca}	UC^{FIBRE} I/O CT LSHF 3kN	8	60011301	60019875	60060673	60011295
	E_{ca}	UC^{FIBRE} I/O CT LSHF 3kN	12	60011342	60011420	60060674	60011299
	E_{ca}	UC^{FIBRE} I/O CT LSHF 3kN	24	60073054	60073055	60073060	60073057
E20	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O CT LSHF-FR 3kN	4	60060232	60060273	E20-4-OM5	60066049
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O CT LSHF-FR 3kN	6	60061211	60062233	E20-6-OM5	60061216
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O CT LSHF-FR 3kN	8	60060271	60060274	E20-8-OM5	60066050
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O CT LSHF-FR 3kN	12	60060271	60060275	E20-12-OM5	60066051
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O CT LSHF-FR 3kN	24	60073151	60073153	E20-24-OM5	60090670

UC^{FIBRE} U-DQ(ZN)BH Bi-Tube

E18a (E_{ca})
Double loose tube 3000 N, 24-48 fibres

E_{ca} CPR

UC^{FIBRE} U-DQ(ZN)BH Bi-Tube

E23 (D_{ca})
Double loose tube 3000 N, 24-48 fibres

D_{ca} CPR

Cable structure

	E18a (E_{ca})		E23 (D_{ca})	
Loose tube	2 × ø2.8 mm gel-filled loose tube with 12 fibres each			
Strain relief	Longitudinally watertight glass roving elements			
Tear thread	1			
Sheath colours	Cables with all fibre types	Blau, RAL 5015	Cable with Singlemode Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
Outer sheath	1.2 mm FireBur® LSHF according to EN 50290-2-27		2 mm FireRes® LSHF-FR according to EN 50290-2-27	

Standards

E18a (E_{ca})	E23 (D_{ca})
ISO 11801-1, EN 50173-1, IEC 60794-1	ISO 11801-1, EN 50173-1, IEC 60794-1, IEC 60794-2
IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN50399 Class E_{ca}	IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class D_{ca}-s1-d1-a1, Class E_{ca}

Properties

IEC 60794-1-21/22

Properties	Test method	E18a (E_{ca})	E23 (D_{ca})
Outer diameter 2-24 fibres	-	8.0 mm	9.9 mm
Cable weight 2-24 fibres	-	60 kg/km	110 kg/km
Tensile strength, installation	E1	3000 N	3000 N
Tensile strength, permanent	E1	1000 N	1000 N
Transverse compressive strength	E3	1500 N / 100mm	1500 N / 100mm
Min. bending radius, installation	E11	R = 160 mm	R = 198 mm
Min. bending radius, permanent	-	R = 80 mm	R = 99 mm
Longitudinal watertightness	F5B	Passed	Passed

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1
E18a	E_{ca}	UC^{FIBRE} I/O CT2 LSHF 3kN	2 × 12	60020677	60020678	E18a-24-OM5	60039918
E23	D_{ca} s1 d1 a1	UC^{FIBRE} I/O CT2 LSHF-FR 3kN	2 × 12	60064257	60064998	60092014	60082513
E23	D_{ca} s1 d1 a1	UC^{FIBRE} I/O CT2 LSHF-FR 3kN	2x24	60096937	60097016	E23-48-OM5	60097017

UC^{FIBRE} U-DQ(ZN)BH

E22 (C_{ca}), E25 ($B2_{ca}$)
Central loose tube 3000 N, 2-24 fibres

C_{ca} CPR

$B2_{ca}$ CPR

Cable structure

	E22 (C_{ca}) & E25 ($B2_{ca}$)	
Loose tube	ø2.8 mm gel-filled loose tube with 2-24 fibres	
Strain relief	Longitudinally watertight glass roving elements	
Sheath colours	Cable with Singlemode Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
Outer sheath	1.5 mm FireRes® LSHF-FR according to EN 50290-2-27	

Standards

E22 (C_{ca})	E25 ($B2_{ca}$)
ISO 11801-1, EN 50173-1, IEC 60794-1, IEC 60794-2	ISO 11801-1, EN 50173-1, IEC 60794-1, IEC 60794-2
IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class C_{ca}-s1a-d1-a1, Class D_{ca}, Class E_{ca}	IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class $B2_{ca}$-s1a-d1-a1, Class C_{ca}, Class D_{ca}, Class E_{ca}

Properties — IEC 60794-1-21/22

Properties	Test method	E22 (C_{ca}) & E25 ($B2_{ca}$)
Outer diameter 2-24 fibres	-	7.5 mm
Cable weight 2-24 fibres	-	73 kg/km
Tensile strength, installation	E1	3000 N
Tensile strength, permanent	E1	1000 N
Transverse compressive strength	E3	2000 N / 100mm
Impact resistance	E4	20 Nm
Torsional strength	E7	5 cycles ± 1 revolution
Min. bending radius, installation	E11	R = 150 mm
Min. bending radius, permanent	-	R= 75 mm (> -20 Grad Celsius Temperatur)
Temperature range	F1	Storage and installation: -40°C to +70°C Operation: -40°C to +70°C
Longitudinal watertightness	F5B	Passed

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1
E22	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O CT LSHF-FR C 3kN	4	E22-4-OM3	60083170	E22-4-OM5	60083167
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O CT LSHF-FR C 3kN	6	60083133	E22-6-OM4	E22-6-OM5	60083168
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O CT LSHF-FR C 3kN	8	60083171	60083172	E22-8-OM5	60083169
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O CT LSHF-FR C 3kN	12	60083163	60083119	E22-12-OM5	60083164
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O CT LSHF-FR C 3kN	24	60083165	60083130	E22-24-OM5	60083166
E25	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O CT LSHF-FR B2 3kN	4	60083160	E25-4-OM4	E25-4-OM5	60083197
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O CT LSHF-FR B2 3kN	6	E25-6-OM3	E25-6-OM4	E25-6-OM5	E25-6-A1
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O CT LSHF-FR B2 3kN	8	60090913	60090914	E25-8-OM5	60090925
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O CT LSHF-FR B2 3kN	12	60087031	60083157	E25-12-OM5	60083198
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O CT LSHF-FR B2 3kN	24	60083159	60085428	E25-24-OM5	60083199

UC^{FIBRE} U-D(ZN)(SR)H

E07 (E_{ca})
armierte Central loose tube 3000 N, 2-24 fibres

E_{ca} CPR

UC^{FIBRE} U-D(ZN)(SR)H

E21 (D_{ca}), E19 ($B2_{ca}$)
armierte Central loose tube 3000 N, 2-24 fibres

D_{ca} CPR

$B2_{ca}$ CPR

Cable structure

	E07a (E_{ca})		E21 (D_{ca}), E19 ($B2_{ca}$)	
Loose tube	ø2.8 mm gel-filled loose tube with 2-24 fibres			
Strain relief	Glass roving elements			
Reinforcement	0.15 mm Steel strip reinforcement			
Sheath colours	Cables with all fibre types	Blue, RAL 5015	Cable with Singlemode Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
Outer sheath	1.5 mm FireBur® LSHF according to EN 50290-2-27		1.5 mm FireRes® LSHF-FR according to EN 50290-2-27	

Standards

E07a (E_{ca})	E21 (D_{ca})	E19 ($B2_{ca}$)
ISO 11801-1, EN 50173-1, IEC 60794-1 C	ISO 11801-1, EN 50173-1, IEC 60794-1	ISO 11801-1, EN 50173-1, IEC 60794-1
IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2	IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2	IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2
Class E_{ca}	EN 50399 Class D_{ca}-s2-d2-a1	EN 50399 Class $B2_{ca}$-s1a-d1-a1

Properties

IEC 60794-1-21/22

Properties	Test method	E07a (E_{ca})	E21 (D_{ca}), E19 ($B2_{ca}$)
Outer diameter 2-24 fibres	-	8.5 mm	8.5 mm
Cable weight 2-24 fibres	-	75 kg/km	E21 = 75kg/km; E19 = 100 kg/km
Tensile strength, installation	E1	3000 N	3000 N
Tensile strength, permanent	E1	1000 N	1000 N
Transverse compressive strength	E3	2200 N / 100mm	2200 N / 100mm
Min. bending radius, installation	E11	R = 170 mm	R = 170 mm
Min. bending radius, permanent	-	R = 85 mm	R = 85 mm
Temperature range	F1	Storage and installation: -40°C to +70°C Operation: -40°C to +70°C	Storage and installation: -40°C to +70°C Operation: -40°C to +70°C
Longitudinal watertightness	F5B	Passed	Passed

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1
E07a	E_{ca}	UC^{FIBRE} I/O CT CST LSHF	4	E07a-4-OM3	60047371	E07a-4-OM5	60019682
	E_{ca}	UC^{FIBRE} I/O CT CST LSHF	6	60020317	E07a-6-OM4	E07a-6-OM5	60018755
	E_{ca}	UC^{FIBRE} I/O CT CST LSHF	8	E07a-8-OM3	60030797	E07a-8-OM5	60033012
	E_{ca}	UC^{FIBRE} I/O CT CST LSHF	12	E07a-12-OM3	E07a-12-OM4	E07a-12-OM5	60018759
	E_{ca}	UC^{FIBRE} I/O CT CST LSHF	24	E07a-24-OM3	E07a-24-OM4	E07a-24-OM5	60071179
E21	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O CT CST LSHF-FR	4	E21-4-OM3	E21-4-OM4	E21-4-OM5	E21-4-A1
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O CT CST LSHF-FR	6	60078982	60078985	E21-6-OM5	60061350
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O CT CST LSHF-FR	8	E21-8-OM3	E21-8-OM4	E21-8-OM5	E21-8-A1
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O CT CST LSHF-FR	12	60078986	60078987	E21-12-OM5	60061290
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O CT CST LSHF-FR	24	60078988	60078989	E21-24-OM5	60071300
E19	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O CT CST LSHF-FR B2	4	60079544	60095045	E19-4-OM5	60071614
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O CT CST LSHF-FR B2	6	E19-6-OM3	60078985	E19-6-OM5	60071615
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O CT CST LSHF-FR B2	8	60072991	60072992	E19-8-OM5	60071735
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O CT CST LSHF-FR B2	12	60071617	60071907	E19-12-OM5	60084725
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O CT CST LSHF-FR B2	24	60071906	60071620	E19-24-OM5	60071877

UC^{FIBRE} A-DQ(ZN)B2Y

E08a
Central loose tube 3000 N, 2-24 fibres

UC^{FIBRE} A-D(ZN)(SR)2Y

E06a
Central loose tube 3000 N, 2-24 fibres

Cable structure

	E08a	E06a
Loose tube	ø2.8 mm gel-filled loose tube with 2-24 fibres	
Strain relief	Longitudinally watertight glass roving elements	Glass roving elements
Reinforcement	-	0.15 mm Steel strip reinforcement
Outer sheath	Schwarz, 1.2 mm PE nach IEC 60811, IEC 60708	Schwarz, 1.5 mm PE nach IEC 60811, IEC 60708

Standards

E08a	E06a
ISO 11801-1, EN 50173-1, IEC 60794-1	ISO 11801-1, EN 50173-1, IEC 60794-1

Properties — IEC 60794-1-21/22

Properties	Test method	E08a	E06a
Outer diameter 2-24 fibres	-	6.7 mm	8.5 mm
Cable weight 2-24 fibres	-	40 kg/km	75 kg/km
Tensile strength, installation	E1	3000 N	3000 N
Tensile strength, permanent	E1	1000 N	1000 N
Transverse compressive strength	E3	2000 N / 100mm	2200 N / 100mm
Impact resistance	E4	20 Nm	30 Nm
Min. bending radius, installation	E11	R = 134 mm	R = 170 mm
Min. bending radius, permanent	-	R = 67 mm	R = 85 mm
Temperature range	F1	Storage: -40°C to +70°C Installation: -15°C to +70°C Operation: -30°C to +70°C	Storage & installation: -40°C to +70°C Operation: -40°C to +60°C
Longitudinal watertightness	F5B	Passed	

Product Code Table

Cable	Reinforcement	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1
E08a	-	UC^{FIBRE} O CT PE 3kN	4	60020056	60020219	E08a-4-OM5	60018842
	-	UC^{FIBRE} O CT PE 3kN	6	E08a-6-OM3	E08a-6-OM4	E08a-6-OM5	60018762
	-	UC^{FIBRE} O CT PE 3kN	8	60047007	60019382	E08a-8-OM5	60018764
	-	UC^{FIBRE} O CT PE 3kN	12	60019415	60047946	E08a-12-OM5	60018767
	-	UC^{FIBRE} O CT PE 3kN	24	60073048	60073125	E08a-24-OM5	60073046
E06a	Steel band	UC^{FIBRE} O CT CST PE	4	60018856	60065311	E06a-4-OM5	60018850
	Steel band	UC^{FIBRE} O CT CST PE	6	60019590	60055105	E06a-6-OM5	60018744
	Steel band	UC^{FIBRE} O CT CST PE	8	60019384	60043719	E06a-8-OM5	60018747
	Steel band	UC^{FIBRE} O CT CST PE	12	60011435	60019807	E06a-12-OM5	60018750
	Steel band	UC^{FIBRE} O CT CST PE	24	60069232	60071180	E06a-24-OM5	60071175

UC^{FIBRE} U-DQ(ZN)BH

N05a (E_{ca})
Stranded loose tubes 5000 N, 24-288 fibres

E_{ca} CPR

UC^{FIBRE} U-DQ(ZN)BH

N08a (D_{ca})
Stranded loose tubes 5000 N, 24-288 fibres

D_{ca} CPR

Cable structure

	N05a (E_{ca})		N08a (D_{ca})	
Central element	FRP			
Loose tube	ø2.3 mm gel-filled loose tube, up to 12 fibres, up to 12 tubes			
Longitudinal water tightness	The cable core is longitudinally watertight due to swelling tapes			
Strain relief	Glass roving elements			
Tear thread	Polyester thread under the outer sheath			
Sheath colours	Cable with all fibres	Blue, RAL 5015	Cable with Singlemode Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
Outer sheath	1.5 mm FireBur® LSHF according to EN50290-2-27		1.5 mm FireRes® LSHF-FR according to EN50290-2-27	

Standards

N05 (E_{ca})	N08a (D_{ca})
ISO 11801-1, EN 50173-1, IEC 60794-1	ISO 11801-1, EN 50173-1, IEC 60794-1, IEC 60794-2
IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, E_{ca}	IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class D_{ca}-s1-d1-a1, Class E_{ca}

Properties

IEC 60794-1-21/22

Properties	Test method							
		N05						
Fibre Quantity	-	24	36	48	72	96	144	288
Nominal diameter [mm]	-	11.2	11.2	11.2	11.2	12.8	15.6	18.5
Cable weight nominal [kg/km]	-	104	105	130	165	165	205	260
Tensile strength, installation	E1	5000 N						
Tensile strength, permanent	E1	1700 N						
Min. bending radius, installation [mm]	-	224	224	224	224	256	312	
Min. bending radius, permanent [mm]	E11	112	112	112	112	128	156	
Longitudinal water tightness	F5B	Passed						
		N08						
Nominal diameter [mm]	-	11.2	11.2	11.2	11.2	12.8	15.6	18.5
Cable weight nominal [kg/km]	-	120	125	127	137	167	257	312
Tensile strength, installation	E1	5000 N						
Tensile strength, permanent	E1	1700 N						
Min. bending radius, installation [mm]	-	224	224	224	224	256	312	
Min. bending radius, permanent [mm]	E11	112	112	112	112	128	156	
Longitudinal water tightness	F5B	Passed						

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1
N05a	E_{ca}	UC^{FIBRE} I/O ST LSHF 5kN	24	60018837	60079514	N05a-24-OM5	60018836
	E_{ca}	UC^{FIBRE} I/O ST LSHF 5kN	36	60019773	60020485	N05a-36-OM5	60019600
	E_{ca}	UC^{FIBRE} I/O ST LSHF 5kN	48	60011424	60019622	60055102	60018839
	E_{ca}	UC^{FIBRE} I/O ST LSHF 5kN	72	60019596	60024963	N05a-72-OM5	60011426
	E_{ca}	UC^{FIBRE} I/O ST LSHF 5kN	96	60018840	60047835	N05a-96-OM5	60019688
	E_{ca}	UC^{FIBRE} I/O ST LSHF 5kN	144	60018855	60019623	N05a-144-OM5	60019469
	E_{ca}	UC^{FIBRE} I/O ST LSHF 5kN	288	N05a-288-OM3	N05a-288-OM4	N05a-288-OM5	N05a-144-A1
N08a	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR 5kN	24	N08-24-OM3	60079563	N08-24-OM5	60079564
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR 5kN	36	N08-36-OM3	N08-36-OM4	N08-36-OM5	N08-36-A1
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR 5kN	48	60082691	60074972	N08-48-OM5	60081655
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR 5kN	72	N08-72-OM3	N08-72-OM4	N08-72-OM5	60079162
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR 5kN	96	N08-96-OM3	N08-96-OM4	N08-96-OM5	N08-96-A1
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR 5kN	144	N08-144-OM3	N08-144-OM4	N08-144-OM5	N08-144-A1
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR 5kN	288	N08-288-OM3	N08-288-OM4	N08-288-OM5	N08-288-A1

UC^{FIBRE} U-DQ(ZN)BH

N14a (C_{ca}), N09a ($B2_{ca}$)
Stranded loose tube 5000 N, 24-432 fibres

C_{ca} CPR

$B2_{ca}$ CPR

Cable structure

	N14a (C_{ca}), N09a ($B2_{ca}$)	
Central element	FRP	
Loose tube	ø2.3 mm gel-filled loose tube, up to 12 fibres, up to 12 tubes	
Longitudinal water tightness	The cable core is longitudinally watertight due to swelling tapes	
Strain relief	Glass roving elements	
Tear thread	Polyester thread under the outer sheath	
Sheath colours	Cable with Singlemode Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
Outer sheath	1.5 mm FireRes® LSHF-FR according to EN50290-2-27	

Standards

N14a (C_{ca})	N09a ($B2_{ca}$)
ISO 11801-1, EN 50173-1, IEC 60794-1, IEC 60794-2	ISO 11801-1, EN 50173-1, IEC 60794-1, IEC 60794-2
IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class C_{ca}-s1-d1-a1, Class D_{ca}, Class E_{ca}	IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class $B2_{ca}$-s1-d1-a1, Class C_{ca}, Class D_{ca}, Class E_{ca}

Properties

IEC 60794-1-21/22

Properties	Test method	N14a (C_{ca}) & N09a ($B2_{ca}$)							
Fibre Quantity	-	24	36	48	72	96	144	288	432
Faser Aufteilung		2x12f	3x12f	4x12f	6x12f	8x12f	12x12f	12x24f	18x24f
Nominal diameter [mm]	-	11.2	11.2	11.2	11.2	12.8	15.6	19	19
Cable weight nominal [kg/km]	-	120	125	127	137	167	257	362	330
Tensile strength, installation	E1	5000 N							
Tensile strength, permanent	E1	1700 N							
Transverse compressive strength	E3	2500 N / 100 mm							
Min. bending radius, installation [mm]	-	224	224	224	224	256	312		
Min. bending radius, permanent [mm]	E11	112	112	112	112	128	156		
Longitudinal water tightness	F5B	Passed							

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1
N14a	C_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR C 5kN	24	60096823	N14-24-OM4	N14-24-OM5	N14-24-A1
	C_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR C 5kN	36	N14-36-OM3	60080212	N14-36-OM5	60081543
	C_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR C 5kN	48	N14-48-OM3	N14-48-OM4	N14-48-OM5	60081543
	C_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR C 5kN	72	N14-72-OM3	N14-72-OM4	N14-72-OM5	N14-72-A1
	C_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR C 5kN	96	N14-96-OM3	N14-96-OM4	N14-96-OM5	N14-96-A1
	C_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR C 5kN	144	N14-144-OM3	N14-144-OM4	N14-144-OM5	N14-144-A1
	C_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR C 5kN	288	N14-288-OM3	N14-288-OM4	N14-288-OM5	60089980
	C_{ca}-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR C 5kN	432	N14-144-OM3	N14-144-OM4	N14-144-OM5	60084242
N09a	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR B2 5kN	24	60076787	60078445	N09-24-OM5	60076786
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR B2 5kN	36	60085487	N09-36-OM4	N09-36-OM5	N09-36-A1
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR B2 5kN	48	60085487	N09-48-OM4	N09-48-OM5	60073614
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR B2 5kN	72	N09-72-OM3	N09-72-OM4	N09-72-OM5	N09-72-A1
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR B2 5kN	96	N09-96-OM3	60078446	N09-96-OM5	N09-96-A1
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR B2 5kN	144	60076785	N09-144-OM4	N09-144-OM5	60077314
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR B2 5kN	288	N09-288-OM3	N09-288-OM4	N09-288-OM5	N09-288-A1
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST LSHF-FR B2 5kN	432	N09-432-OM3	N09-432-OM4	N09-432-OM5	N09-432-A1

UC^{FIBRE} U-DQH(SR)H

I12 (E_{ca})
Stranded loose tube with armouring, 12-288 fibres

E_{ca} CPR

UC^{FIBRE} U-DQH(SR)H

I13 (D_{ca}), I14 ($B2_{ca}$)
Stranded loose tube with armouring, 24-144 fibres

D_{ca} CPR

$B2_{ca}$ CPR

Cable structure

	I12 (E_{ca})		I13 (D_{ca}), I14 ($B2_{ca}$)	
Central element	FRP			
Loose tube	ø2.3 mm gel-filled loose tube, up to 24 cores, up to 12 tubes			
Longitudinal water tightness	The cable core is longitudinally watertight due to swelling tapes			
Tear thread	Polyester thread under the 1st outer sheath			
1. Outer sheath	FireBur® LSHF according to EN50290-2-27		FireRes® LSHF-FR according to EN50290-2-27	
Reinforcement	0.155 mm corrugated steel jacket			
Sheath colours	Cable with all fibres	Blue, RAL 5015 optional black	Cable with Singlemode Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
2. Outer sheath	1.5 mm FireBur® LSHF according to EN50290-2-27		1.5 mm FireRes® LSHF-FR according to EN50290-2-27	

Standards

I12 (E_{ca})	I13 (D_{ca})	I14 ($B2_{ca}$)
ISO 11801-1, EN 50173-1, IEC 60794-3, IEC 60794-3-10, IEC 60794-3-12		IEC 60794-1, IEC 60794-2
IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2		
E_{ca}	EN 50399 Class D_{ca}-s2-d2-a1	EN 50399 Class $B2_{ca}$-s1-d1-a1

Properties

IEC 60794-1-21/22

Properties	Method	I12 (E_{ca}) / I13 (D_{ca}) / I14 ($B2_{ca}$)							
Fibre Quantity	-	12	24	36	48	72	96	144	288
Nominal diameter [mm]	-	14.5	14.5	14.5	14.5	14.5	14.5	19.5	21.5
Cable weight nominal [kg/km] – I12	-	225	225	225	225	225	220	385	390
Cable weight nominal [kg/km] – I13	-	245	245	245	250	250	222	385	390
Cable weight nominal [kg/km] – I14	-	241	246	247	255	255	248	385	-
Tensile strength, installation	E1	1800 N							
Tensile strength, permanent	E1	1200 N							
Min. bending radius, installation [mm]	-	145	145	145	145	145	145	195	-
Min. bending radius, permanent [mm]	E11	290	290	290	290	290	290	390	-

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1 OS2
I12	E_{ca}	UC^{FIBRE} I/O ST CST LSHF	24	I12-24-OM3	I12-24-OM4	I12-24-OM5	I12-24-A1
	E_{ca}	UC^{FIBRE} I/O ST CST LSHF	36	I12-36-OM3	I12-36-OM4	I12-36-OM5	I12-36-A1
	E_{ca}	UC^{FIBRE} I/O ST CST LSHF	48	I12-48-OM3	I12-48-OM4	I12-48-OM5	I12-48-A1
	E_{ca}	UC^{FIBRE} I/O ST CST LSHF	72	I12-72-OM3	I12-72-OM4	I12-72-OM5	I12-72-A1
	E_{ca}	UC^{FIBRE} I/O ST CST LSHF	96	I12-96-OM3	I12-96-OM4	I12-96-OM5	I12-96-A1
	E_{ca}	UC^{FIBRE} I/O ST CST LSHF	144	I12-144-OM3	I12-144-OM4	I12-144-OM5	60051557
I13	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O ST CST LSHF-FR	24	I13-24-OM3	I13-24-OM4	I13-24-OM5	I13-24-A1
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O ST CST LSHF-FR	36	I13-36-OM3	I13-36-OM4	I13-36-OM5	I13-36-A1
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O ST CST LSHF-FR	48	I13-48-OM3	I13-48-OM4	I13-48-OM5	I13-48-A1
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O ST CST LSHF-FR	72	I13-72-OM3	I13-72-OM4	I13-72-OM5	60066027
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O ST CST LSHF-FR	96	I13-96-OM3	I13-96-OM4	I13-96-OM5	I13-96-A1
	D_{ca}-s2-d2-a1	UC^{FIBRE} I/O ST CST LSHF-FR	144	I13-144-OM3	I13-144-OM4	I13-144-OM5	I13-144-A1
I14	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST CST LSHF-FR B2	24	60076790	I14-24-OM4	I14-24-OM5	60076791
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST CST LSHF-FR B2	36	I14-36-OM3	I14-36-OM4	I14-36-OM5	I14-36-A1
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST CST LSHF-FR B2	48	I14-48-OM3	60086297	I14-48-OM5	60081091
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST CST LSHF-FR B2	72	I14-72-OM3	I14-72-OM4	I14-72-OM5	60071961
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST CST LSHF-FR B2	96	I14-96-OM3	I14-96-OM4	I14-96-OM5	60071962
	$B2_{ca}$-s1-d1-a1	UC^{FIBRE} I/O ST CST LSHF-FR B2	144	60076789	I14-144-OM4	I14-144-OM5	60076788

UC^{FIBRE} A-DQ(ZN)B2Y

H08a
Stranded loose tube 5000 N 12-288 fibres

UC^{FIBRE} A-DQ2Y(SR)2Y

I11a
Stranded loose tube with armouring 12-288 fibres

Cable structure

	H08a	I11a
Central element	FRP	
Loose tube	ø2.5 mm gel-filled loose tube, up to 24 fibres, up to 12 cores	
Longitudinal water tightness	The cable core is longitudinally watertight due to swelling tapes	
Strain relief	Glass roving elements	
Tear thread	Polyester thread under the outer sheath	
Outer sheath	1.5 mm MDPE according to IEC 60811, IEC 60708	MDPE according to IEC 60811, IEC 60708
Tear thread	-	Polyester thread under the outer sheath
Reinforcement	-	0.15 mm corrugated steel jacket
Outer sheath	-	1.5 mm MDPE according to IEC 60811, IEC 60708
Sheath colours	Black	

Standards

H08a	I11a
ISO 11801-1, EN 50173-1, IEC 60794-1, EN 187 000, IEC 60794-3, IEC 60794-3-10, IEC 60794-3-12	

Properties

IEC 60794-1-21/22

Properties	Test method	H08a							
Fibre Quantity	-	12	24	36	48	72	96	144	288
Nominal diameter [mm] – H08a	-	11.2	11.2	11.2	11.2	11.2	12.8	15.6	18.5
Cable weight nominal [kg/km] – H08a	-	100	96	98	98	100	128	195	250
Tensile strength, installation	E1	5000 N							
Tensile strength, permanent	E1	1700 N							
Min. bending radius, installation [mm]	-	224	224	224	224	224	256	312	370
Min. bending radius, permanent [mm]	E11	112	112	112	112	112	128	156	185
		I11a							
Nominal diameter [mm]	-	14.5	14.5	14.5	14.5	14.5	14.5	19.5	21.5
Cable weight nominal [kg/km]	-	195	195	195	195	195	195	345	380
Tensile strength, installation	E1	1800 N							
Tensile strength, permanent	E1	1200 N							
Min. bending radius, installation [mm]	-	290	290	290	290	290	290	390	390
Min. bending radius, permanent [mm]	E11		145	145	145	145	145	195	195

Product Code Table

Cable	Reinforcement	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1 OS2
H08a	Non-metallic	UC^{FIBRE} O ST PE 5kN	24	60085179	60020612	H08a-24-OM5	60019420
	Non-metallic	UC^{FIBRE} O ST PE 5kN	36	H08a-36-OM3	H08a-36-OM4	H08a-36-OM5	H08a-36-A1
	Non-metallic	UC^{FIBRE} O ST PE 5kN	48	H08a-48-OM3	60019693	H08a-48-OM5	60071739
	Non-metallic	UC^{FIBRE} O ST PE 5kN	72	H08a-72-OM3	H08a-72-OM4	H08a-72-OM5	60019579
	Non-metallic	UC^{FIBRE} O ST PE 5kN	96	H08a-96-OM3	60072623	H08a-96-OM5	60019153
	Non-metallic	UC^{FIBRE} O ST PE 5kN	144	H08a-144-OM3	H08a-144-OM4	H08a-144-OM5	60019589
	Non-metallic	UC^{FIBRE} O ST PE 5kN	288	H08a-288-OM3	H08a-288-OM4	H08a-288-OM5	H08a-288-A1
I11a	Steel band	UC^{FIBRE} O ST CST PE	24	60082803	60073514	I11a-24-OM5	60019390
	Steel band	UC^{FIBRE} O ST CST PE	36	I11a-36-OM3	I11a-36-OM4	I11a-36-OM5	60019480
	Steel band	UC^{FIBRE} O ST CST PE	48	I11a-48-OM3	I11a-48-OM4	I11a-48-OM5	60019391
	Steel band	UC^{FIBRE} O ST CST PE	72	I11a-72-OM3	I11a-72-OM4	I11a-72-OM5	I11a-72-A1
	Steel band	UC^{FIBRE} O ST CST PE	96	I11a-96-OM3	I11a-96-OM4	I11a-96-OM5	I11a-96-A1
	Steel band	UC^{FIBRE} O ST CST PE	144	I11a-144-OM3	I11a-144-OM4	I11a-144-OM5	60044507
	Steel band	UC^{FIBRE} O ST CST PE	288	I11a-144-OM3	I11a-144-OM4	I11a-144-OM5	60079285

UC^{FIBRE} J-V(ZN)H

D02b (D_{ca}), D39 (C_{ca})
Mini-Breakout, 2-24 fibres

D_{ca} CPR

C_{ca} CPR

Cable structure

	D02b (D_{ca}), D39 (C_{ca})	
Buffer	ES9 Vollader (tight buffer) ø900 µm ± 50 µm	
Strain relief	Aramid Elemente	
Sheath colours	Cable with Singlemode Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
Outer sheath	FireRes® LSHF-FR according to EN 50290-2-27	

Standards

D02b (D_{ca})	D39 (C_{ca})
ISO 11801-1, EN 50173-1, IEC 60794-1	ISO 11801-1, EN 50173-1, IEC 60794-1, IEC 60794-2
IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class Class D_{ca}-s2-d2-a1, Class E_{ca}	IEC 60332-3-24, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class Class C_{ca}-s1a-d1-a1, Class D_{ca}, Class E_{ca}

Properties

IEC 60794-1-21/22

Properties	Test method	D02b						
Fibre Quantity	-	2	4	6	8	12	16	24
Nominal diameter [mm]	-	4.5	4.9	5.3	6	6.4	7	7.8
Cable weight nominal [kg/km]	-	22	26	30	35	42	50	61
Tensile strength, installation	E1	1000	1000	1000	1000	1200	1200	1500
Tensile strength, permanent	E1	280	280	280	280	340	340	400
Min. bending radius, installation [mm]	-	90	98	106	120	128	140	156
Min. bending radius, permanent [mm]	E11	45	49	53	60	64	70	78
		D39						
Nominal diameter [mm]	-	5.3	5.7	6.1	6.8	7.2	7.8	8.6
Cable weight nominal [kg/km]	-	35	36	42	48	56	64	80
Tensile strength, installation	E1	1000	1000	1000	1000	1200	1200	1500
Tensile strength, permanent	E1	280	280	280	280	340	340	400
Min. bending radius, installation [mm]	-	106	114	122	136	144	156	172
Min. bending radius, permanent [mm]	E11	53	57	61	68	72	78	86

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1	BendBright^{XS} G.657.A2
D02b	D_{ca}-s2-d2-a1	UC^{FIBRE} I DI LSHF-FR	2	D02b-2-OM3	D02b-2-OM4	D02b-2-OM5	D02b-2-A1	D02b-2-A2
	D_{ca}-s2-d2-a1	UC^{FIBRE} I DI LSHF-FR	4	60019145	60087858	D02b-4-OM5	60019147	D02b-4-A2
	D_{ca}-s2-d2-a1	UC^{FIBRE} I DI LSHF-FR	6	D02b-6-OM3	60075870	D02b-6-OM5	D02b-6-A1	D02b-6-A2
	D_{ca}-s2-d2-a1	UC^{FIBRE} I DI LSHF-FR	8	D02b-8-OM3	60087566	D02b-8-OM5	D02b-8-A1	D02b-8-A2
	D_{ca}-s2-d2-a1	UC^{FIBRE} I DI LSHF-FR	12	60019146	D02b-12-OM4	D02b-12-OM5	60019150	60018920
	D_{ca}-s2-d2-a1	UC^{FIBRE} I DI LSHF-FR	16	D02b-16-OM3	D02b-16-OM4	D02b-16-OM5	D02b-16-A1	D02b-16-A2
	D_{ca}-s2-d2-a1	UC^{FIBRE} I DI LSHF-FR	24	D02b-24-OM3	D02b-24-OM4	D02b-24-OM5	60019151	D02b-24-A2
D39	C_{ca}-s1a-d1-a1	UC^{FIBRE} I DI LSHF-FR C	2	60070887	60095226	D39-2-OM5	60077388	D39-2-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I DI LSHF-FR C	4	D39-4-OM3	D39-4-OM4	D39-4-OM5	D39-4-A1	D39-4-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I DI LSHF-FR C	6	D39-6-OM3	D39-6-OM4	D39-6-OM5	D39-6-A1	D39-6-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I DI LSHF-FR C	8	60077387	D39-8-OM4	D39-8-OM5	D39-8-A1	D39-8-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I DI LSHF-FR C	12	D39-12-OM3	D39-12-OM4	D39-12-OM5	D39-12-A1	60088986
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I DI LSHF-FR C	16	D39-16-OM3	D39-16-OM4	D39-16-OM5	D39-16-A1	D39-16-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I DI LSHF-FR C	24	60070886	60095152	D39-24-OM5	D39-24-A1	60088603

UC^{FIBRE} J-V(ZN)HH

D06b ($B2_{ca}$, C_{ca}, D_{ca}, E_{ca})
Breakout, 36-96 fibres

$B2_{ca}$ CPR | C_{ca} CPR | D_{ca} CPR | E_{ca} CPR

Cable structure		
Central element	Rod made of glass-fibre reinforced plastic with cover made of LSHF material	
Fibre Quantity	36 - 96	
Einzelelement	6 ES9 Secondary Coated Fibres ø900 µm ± 50 µm 1 Red 2 Green 3 Blue 4 Yellow 5 White 6 Grey Aramid elements as strain relief, diameter: 3.5 mm, LSHF cover, colour like the jacket, with number marking 1, 2, 3 ...	
Stranding	SZ-shaped around the central element in one or two layers	
Sheath colours	Cable with SM fibre Cable with M6-OM1 Cable with MaxCap-BendBright-OM2 Cable with MaxCap-BendBright-OM3 Cable with MaxCap-BendBright-OM4 Cable with BendBright WideCap-OM5	Yellow, RAL 1018 Grey, RAL 7037 Orange, RAL 2009 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green
Outer sheath	FireRes® LSHF-FR Halogen-free flame retardant thermoplastic sheathing compounds according to EN 50290-2-27, UV stabilised	

Standards
EN 187 000, IEC 60794-2, IEC 60794-2-20, ISO 11801-1, EN 50173-1:2002
EN 50399: Class $B2_{ca}$ s1b-d1-a1, Class C_{ca}, Class D_{ca}, Class E_{ca} LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-3-24, IEC 60754-2; IEC 61034

Properties									
Properties	Test method	IEC 60794-1-21/22							
Fibre Quantity	-	36	42	48	54	60	66	72	78-96
diameter v [mm]	-	15.7	15.7	15.7	19.7	19.7	19.7	19.7	19.7
Cable weight nominal [kg/km]	-	280	285	290	380	385	390	395	325
Tensile strength, installation	E1	4200	4200	4200	5400	5400	5400	5400	6600
Tensile strength, permanent	E1	1400	1400	1400	1800	1800	1800	1800	2200
Transverse compressive strength [N/100mm]	E3	3000							
Impact resistance [J]	E4	20							
Torsional strength	E7	5 cycles ± 1 revolution							
Kink	E10	The cables remain without kink when they are formed into a loop with a diameter equal to 12x the cable diameter							
Min. bending radius, installation [mm]	-	314	314	314	394	394	394	394	394
Min. bending radius, permanent [mm]	E11	157	157	157	197	197	197	197	197

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1	BendBright^{XS} G.657.A2
D06b	$B2_{ca}$-s1b-d1-a1	UC^{FIBRE} I B LSHF-FR B2	36	D06b-36-OM3	D06b-36-OM4	D06b-36-OM5	60071709	D06b-36-A2
	$B2_{ca}$-s1b-d1-a1	UC^{FIBRE} I B LSHF-FR B2	48	D06b-48-OM3	D06b-48-OM4	D06b-48-OM5	60060251	D06b-48-A2
	$B2_{ca}$-s1b-d1-a1	UC^{FIBRE} I B LSHF-FR B2	60	D06b-60-OM3	D06b-60-OM4	D06b-60-OM5	D06b-60-A1	D06b-60-A2
	$B2_{ca}$-s1b-d1-a1	UC^{FIBRE} I B LSHF-FR B2	72	D06b-72-OM3	D06b-72-OM4	D06b-72-OM5	D06b-72-A1	D06b-72-A2
	$B2_{ca}$-s1b-d1-a1	UC^{FIBRE} I B LSHF-FR B2	96	D06b-96-OM3	D06b-96-OM4	D06b-96-OM5	60071966	D06b-96-A2

UC^{FIBRE} J-V(ZN)HH

D03b (D_{ca}), D32 (C_{ca})
Breakout, 4-24 fibres

D_{ca} CPR

C_{ca} CPR

Cable structure

	D03b (D_{ca}), D32 (C_{ca})	
ø2.0 mm single element	Solid core (tight buffer) fibres ø900 µm ± 50 µm Aramid elements as strain relief LSHF sheath, in the same colour as the sheath material, with number marking	
Central element	FRP with thickening of LSHF material	
Tear thread	Polyester thread	
Sheath colours	Cable with singlemode Cable with M6-OM1 fibres Cable with MaxCap-BB-OM2 Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Grey, RAL 7037 Orange, RAL 2009 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
Outer sheath	FireRes® LSHF-FR according to EN 50290-2-27	

Standards

D03b (D_{ca})	D32 (C_{ca})
ISO 11801-1, EN 50173-1, IEC 60794-2	ISO 11801-1, EN 50173-1, IEC 60794-2, IEC 60794-2
IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, IEC 60332-3-24 EN 50399 Class D_{ca}-s2-d2-a1, Class E_{ca}	IEC 60332-1-2, IEC 60754-2, IEC 60754-2, IEC 61034-2, EN 50399 Class C_{ca}-s1a-d1-a1, Class D_{ca}, Class E_{ca}, IEC 60332-3-24

Properties

IEC 60794-1-21/22

Properties	Test method	D03b					
Fibre Quantity	-	4	6	8	12	16	24
Nominal diameter [mm]	-	7.5	8.5	10.0	12.5	12	14.5
Cable weight nominal [kg/km]	-	60	75	100	160	145	210
Tensile strength, installation	E1	1300	1800	2400	3500	3000	4500
Tensile strength, permanent	E1	450	600	800	1150	1000	1500
Min. bending radius, installation [mm]	-	130	150	150	250	240	280
Min. bending radius, permanent [mm]	E11	75	100	100	150	140	175
		D39					
Nominal diameter [mm]	-	7.5	8.4	9.6	12.4	12.5	14.9
Cable weight nominal [kg/km]	-	60	75	100	160	145	210
Tensile strength, installation	E1	1300	1800	2400	3500	3000	4500
Tensile strength, permanent	E1	450	600	800	1150	1000	1500
Min. bending radius, installation [mm]	-	150	150	192	248	250	298
Min. bending radius, permanent [mm]	E11	75	84	96	124	125	149

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1	BendBright^{XS} G.657.A2
D03b	D_{ca}-s1-d1-a1	UC^{FIBRE} I B LSHF-FR	4	60020721	60078639	D03b-4-OM5	60019467	D03b-4-A2
	D_{ca}-s1-d1-a1	UC^{FIBRE} I B LSHF-FR	6	D03b-6-OM3	D03b-6-OM4	D03b-6-OM5	60020209	D03b-6-A2
	D_{ca}-s1-d1-a1	UC^{FIBRE} I B LSHF-FR	8	60019459	60078704	D03b-8-OM5	60019456	60088630
	D_{ca}-s1-d1-a1	UC^{FIBRE} I B LSHF-FR	12	60019874	60072197	D03b-12-OM5	60019458	60019700
	D_{ca}-s1-d1-a1	UC^{FIBRE} I B LSHF-FR	16	60019583	D03b-16-OM4	D03b-16-OM5	D03b-16-A1	D03b-16-A2
	D_{ca}-s1-d1-a1	UC^{FIBRE} I B LSHF-FR	24	60019583	60073285	D03b-24-OM5	60046794	60062676
D32	C_{ca}-s1a-d1-a1	UC^{FIBRE} I B LSHF-FR C	4	60083518	60083533	D32-4-OM5	60070959	D32-4-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I B LSHF-FR C	6	D32-6-OM3	D32-6-OM4	D32-6-OM5	D32-6-A1	D32-6-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I B LSHF-FR C	8	D32-8-OM3	D32-8-OM4	D32-8-OM5	D32-8-A1	D32-8-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I B LSHF-FR C	12	60077131	D32-12-OM4	D32-12-OM5	D32-12-A1	D32-12-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I B LSHF-FR C	16	D32-16-OM3	D32-16-OM4	D32-16-OM5	D32-16-A1	D32-16-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I B LSHF-FR C	24	D32-24-OM3	D32-24-OM4	D32-24-OM5	60070958	D32-24-A2

UC^{FIBRE} U-V(ZN)H

D12b (E_{ca})
Mini-Breakout, 2-24 fibres

E_{ca} CPR

UC^{FIBRE} U-VQ(ZN)BH

D33 (D_{ca})
Mini-Breakout, 2-24 fibres

D_{ca} CPR

Cable structure

	D12b (E_{ca})		D33 (D_{ca})	
Buffer	ES9 solid core (tight buffer) ø900 µm ± 50 µm			
Longitudinal watertightness			Swelling tapes	
Strain relief	Glass roving elements		Longitudinally watertight glass roving elements	
Sheath colours	Cable with all fibres	Blue, RAL 5015	Cable with Singlemode Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
Outer sheath	FireBur®		FireRes® LSHF-FR according to EN 50290-2-27	

Standards

D12b (E_{ca})	D33 (D_{ca})
ISO 11801-1, EN 187 000, IEC 60794-2, EN 50 173-1, IEC 60794-2-20, EN 50575	ISO 11801-1, EN 50173-1, IEC 60794-1, IEC 60794-2
IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, Class E_{ca}	IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, IEC 60332-3-24 EN 50399 Class Class D_{ca}-s2-d2-a1, Class E_{ca}

Properties

IEC 60794-1-21/22

Properties	Test method	D12b						
Fibre Quantity	-	2	4	6	8	12	16	24
Nominal diameter [mm]	-	6.2	6.4	6.6	6.8	7.3	7.8	8.6
Cable weight nominal [kg/km]	-	32	34	36	39	43	52	63
Tensile strength, installation	E1	1500 N					2100 N	2400 N
Tensile strength, permanent	E1	500 N					700 N	800 N
Min. bending radius, installation [mm]	-	124	128	132	136	146	156	172
Min. bending radius, permanent [mm]	E11	62	64	66	68	73	78	86
		D33						
Nominal diameter [mm]	-	6.0	6.5	6.5	6.5	7.5	8.0	8.5
Cable weight nominal [kg/km]	-	39	43	45	47	58	67	83
Tensile strength, installation	E1	1500 N					2100 N	2400 N
Tensile strength, permanent	E1	500 N					700 N	800 N
Min. bending radius, installation [mm]	-	120	130	130	130	150	160	170
Min. bending radius, permanent [mm]	E11	60	65	65	65	75	80	85

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	WideCap-OM5	BendBright G.657.A1	BendBright^{XS} G.657.A2
D12b	E_{ca}	UC^{FIBRE} I/O DI LSHF	2	60019274	D12b-2-OM4	D12b-2-OM5	60019428	D12b-2-A2
	E_{ca}	UC^{FIBRE} I/O DI LSHF	4	60018808	60048332	D12b-4-OM5	60018903	60019749
	E_{ca}	UC^{FIBRE} I/O DI LSHF	6	60018905	60019673	D12b-6-OM5	60018906	D12b-6-A2
	E_{ca}	UC^{FIBRE} I/O DI LSHF	8	60018882	D12b-8-OM4	D12b-8-OM5	D12b-8-A1	D12b-8-A2
	E_{ca}	UC^{FIBRE} I/O DI LSHF	12	60018933	60018942	D12b-12-OM5	60018910	D12b-12-A2
	E_{ca}	UC^{FIBRE} I/O DI LSHF	16	60019399	D12b-16-OM4	D12b-16-OM5	D12b-16-A1	D12b-16-A2
	E_{ca}	UC^{FIBRE} I/O DI LSHF	24	60011423	60018943	D12b-24-OM5	60018912	D12b-24-A2
D33	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O DI LSHF-FR	2	60066547	D33-2-OM4	D33-2-OM5	D33-2-A1	D33-2-A2
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O DI LSHF-FR	4	60066545	D33-4-OM4	D33-4-OM5	60066582	D33-4-A2
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O DI LSHF-FR	6	60060896	D33-6-OM4	D33-6-OM5	60061284	D33-6-A2
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O DI LSHF-FR	8	60066546	D33-8-OM4	D33-8-OM5	60066583	D33-8-A2
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O DI LSHF-FR	12	60060899	60060900	D33-12-OM5	60060897	D33-12-A2
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O DI LSHF-FR	16	D33-16-OM3	D33-16-OM4	D33-16-OM5	D33-16-A1	D33-16-A2
	D_{ca}-s1-d1-a1	UC^{FIBRE} I/O DI LSHF-FR	24	60060865	60060901	D33-24-OM5	60060898	D33-24-A2

UC^{FIBRE} U-VQ(ZN)BH

D36 (C_{ca}), D37 ($B2_{ca}$)
Mini-Breakout, 2-24 fibres

C_{ca} CPR

$B2_{ca}$ CPR

Cable structure

	D36 (C_{ca}), D37 ($B2_{ca}$)	
Buffer	ES9 solid core (tight buffer) ø900 µm ± 50 µm	
Longitudinal watertightness	Swelling tapes	
Strain relief	Longitudinally watertight glass roving elements	
Sheath colours	Cable with Singlemode Cable with MaxCap-BB-OM2 Cable with MaxCap-BB-OM3 Cable with MaxCap-BB-OM4 Cable with WideCap-OM5	Yellow, RAL 1018 Orange, RAL 2009 Turquoise, RAL 6027 Erika violet, RAL 4003 Lime green, RAL 6039
Outer sheath	FireRes® LSHF-FR	

Standards

D36 (C_{ca})	D37 ($B2_{ca}$)
ISO 11801-1, EN 50173-1, IEC 60794-1-2	ISO 11801-1, EN 50173-1, IEC 60794-1, IEC 60794-2
IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class Class C_{ca}-s1a-d1-a1, Class D_{ca}, Class $E_{ca,}$ IEC 60332-3-24	IEC 60332-1-2, IEC 60754-1, IEC 60754-2, IEC 61034-2, EN 50399 Class Class $B2_{ca}$-s1a-d1-a1, Class C_{ca}, Class D_{ca}, Class $E_{ca,}$ IEC 60332-3-24

Properties

IEC 60794-1-21/22

Properties	Test method							
		D36						
Fibre Quantity	-	2	4	6	8	12	16	24
Nominal diameter [mm]	-	7.0	7.2	7.4	8.2	8.6	8.6	9.6
Cable weight nominal [kg/km]	-	46	48	49	54	62	75	87
Tensile strength, installation	E1	1500 N					2100 N	2400 N
Tensile strength, permanent	E1	500 N					700 N	800 N
Min. bending radius, installation [mm]	-	140	144	148	152	164	172	192
Min. bending radius, permanent [mm]	E11	70	72	74	76	82	86	96
		D37						
Nominal diameter [mm]	-	7.0	7.2	7.4	8.2	8.6	8.6	9.6
Cable weight nominal [kg/km]	-	42	43	44	49	57	70	81
Tensile strength, installation	E1	1500 N					2100 N	2400 N
Tensile strength, permanent	E1	500 N					700 N	800 N
Min. bending radius, installation [mm]	-	140	144	148	152	164	172	192
Min. bending radius, permanent [mm]	E11	70	72	74	76	82	86	96

Product Code Table

Cable	CPR	Description	Fibre Quantity	MaxCap-BB-OM3	MaxCap-BB-OM4	Wide-Cap-OM5	BendBright G.657.A1	BendBright^{XS} G.657.A2
D36	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR C	2	60060727	D36-2-OM4	D36-2-OM5	60064976	D36-2-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR C	4	D36-4-OM3	D36-4-OM4	D36-4-OM5	D36-4-A1	D36-4-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR C	6	D36-6-OM3	D36-6-OM4	D36-6-OM5	D36-6-A1	D36-6-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR C	8	D36-8-OM3	D36-8-OM4	D36-8-OM5	D36-8-A1	D36-8-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR C	12	D36-12-OM3	D36-12-OM4	D36-12-OM5	60077605	D36-12-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR C	16	D36-16-OM3	D36-16-OM4	D36-16-OM5	D36-16-A1	D36-16-A2
	C_{ca}-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR C	24	60064977	D36-24-OM4	D36-24-OM5	60060715	D36-24-A2
D37	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR B2	2	60064973	D37-2-OM4	D37-2-OM5	60064972	D37-2-A2
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR B2	4	D37-4-OM3	D37-4-OM4	D37-4-OM5	D37-4-A1	D37-4-A2
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR B2	6	D37-6-OM3	D37-6-OM4	D37-6-OM5	D37-6-A1	D37-6-A2
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR B2	8	D37-8-OM3	D37-8-OM4	D37-8-OM5	D37-8-A1	D37-8-A2
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR B2	12	D37-12-OM3	D37-12-OM4	D37-12-OM5	D37-12-A1	D37-12-A2
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR B2	16	D37-16-OM3	D37-16-OM4	D37-16-OM5	D37-16-A1	D37-16-A2
	$B2_{ca}$-s1a-d1-a1	UC^{FIBRE} I/O DI LSHF-FR B2	24	60064974	D37-24-OM4	D37-24-OM5	60060507	D37-24-A2

3. CABLES FOR SPECIAL APPLICATIONS

Here you will find copper and fibre optic cables for practically every communication application. Our superior solutions not only meet all the current requirements you place on your cables, but are also future-proof thanks to higher bandwidths, special durability and simple installation. Thanks to dedicated product research and development, we can help you make your existing cable solutions fit for future applications. For particularly demanding applications, we manufacture special cables to customer order.

CABLES FOR SPECIAL APPLICATIONS

Data centre cable solutions

Cat 8.2 UC^{FUTURE} COMPACT22 Cat8.2 S/FTP 52
Cat 8.2 UC^{FUTURE} COMPACT26/7 Cat8.2 S/FTP Patch 53
Cat.7 UC^{FUTURE} COMPACT^{ZD} 26 Cat.7 S/FTP 4P 54
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Cat.7 UC^{FUTURE} COMPACT 23 Cat.7 S/FTP 6x4P 56
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Long Reach Cable Solutions > 100m

Cat.7 UC LR22 10Gbit S/FTP LSHF-FR 58
Cat.7 UC LR22 10Gbit S/FTP PE 59

Cables for outdoor application

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Cable solutions for industry

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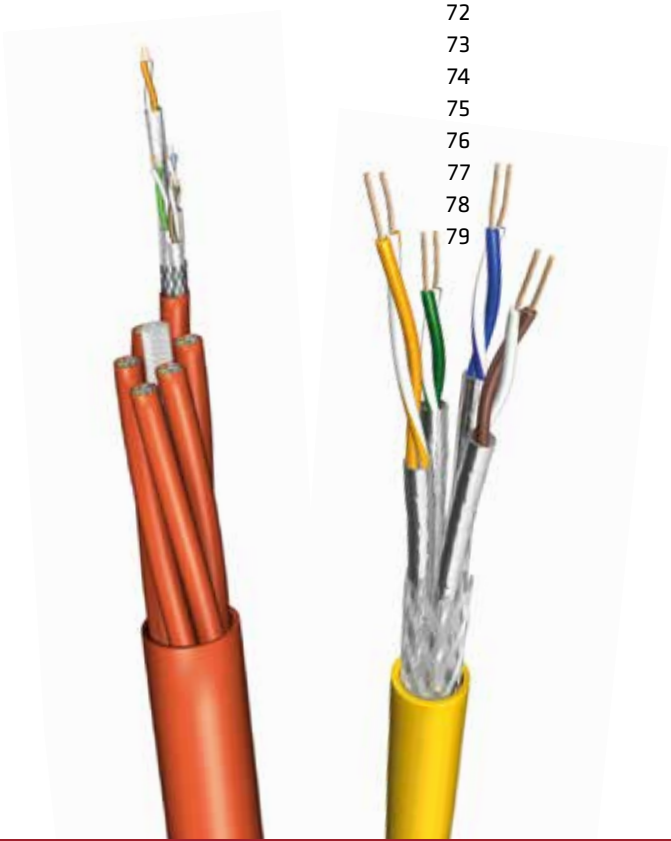


UC^{FUTURE} COMPACT22 Cat.8.2 S/FTP 2000MHz

S/FTP AWG22/1

PoE+ | $B2_{ca}$ CPR | C_{ca} CPR | D_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T; 40GBase-T
Cat. 8 ; Cat8.2, ISDN, TPDDI, ATM, CATV, Broadband Video, SOHO cabling, Power over Ethernet (PoE) Type 1 -4
Based on component standards for cables:
IEC 61156-9; EN 50288-12-1

Cable structure

Conductor	Cu-wire, bare, AWG 22
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	LSHF-FR D_{ca} - $B2_{ca}$ / FRNC-C, Yellow RAL1021
Outer diameter	8.5 mm

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Electrical data at 20°C

	System cut-off frequency at 2000MHz
Attenuation	78.1 dB
NEXT	75.0 dB
PS-NEXT	72.0 dB
ACR-N	-3.0 dB
PS-ACR	-6.0 dB
ACR-F	59.0 dB
PS-ACR-F	56.0 dB
Return Loss	18.0 dB

Nominal Velocity of Propagation approx. 73 %

Flame retardancy

Euro class according to EN 50399	$B2_{ca}$ s1a d1 a1, C_{ca} s1a d1 a1, D_{ca} s2 d1 a1
IEC	IEC60332-3-24; IEC60754-2; IEC 61034; IEC60332-1

External quality monitoring

GHMT

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC^{FUTURE} COMPACT22 Cat.8.2 S/FTP 4P LSHF-FR $B2_{ca}$	60066016	$B2_{ca}$ s1a d1 a1
UC^{FUTURE} COMPACT22 Cat.8.2 S/FTP 4P LSHF-FR C_{ca}	60060913	C_{ca} s1a d1 a1
UC^{FUTURE} COMPACT22 Cat.8.2 S/FTP 4P LSHF-FR	60030331	D_{ca} s1a d1 a1

UC^{FUTURE} COMPACT26/7 Cat.8.2 S/FTP Patch

S/FTP AWG26/7

PoE+

E_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
Connection and interconnection cable
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T; 25GBase-T; 40GBase-T, IEEE 802.5 16 MB; ISDN; TPDDI; ATM,
Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
IEC 61156-10; EN 50288-12-2

Cable structure

Conductor	Cu-wire, bare, AWG 26
Insulation	Foam-Skin Polyethylen Ø 1.1 mm
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	LSHF E_{ca} , Gelb RAL1021
Outer diameter	6.0 mm

Shielding properties

Transfer impedance	at 1 MHz	25 mΩ/m
	at 10 MHz	25 mΩ/m Grade 1
	at 30 MHz	30 mΩ/m
Coupling attenuation	70 dB	

Electrical data at 20°C

	System cut-off frequency at 2000MHz (100m)
Attenuation	136.0 dB
NEXT	70.0 dB
PS-NEXT	67.0 dB
ACR-N	-66.0 dB
PS-ACR	-69.0 dB
ACR-F	35.0 dB
PS-ACR-F	32.0 dB
Return Loss	15.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	E_{ca}
IEC	IEC60754-2; IEC 61034; IEC60332-1

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC^{FUTURE} COMPACT26/7 Cat.8.2 S/FTP 4P Patch	60032047	E_{ca}

UC^{FUTURE} COMPACT^{ZD} 26 Cat.7 S/FTP 4P

S/FTP AWG26/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801
Power over Ethernet (PoE) / Type 1 - 4. Meets at least the requirements of Class EA with a conductor diameter in AWG26 at a max. transmission length of 60m instead of 90m in Permanent Link.
Based on component standards for cables:
EN 50288-4-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 26
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	LSHF-FR D_{ca} orange RAL 2003
Outer diameter	5.7 mm

Electrical data at 20°C

	System cut-off frequency at 600MHz
Attenuation	7.9 dB
NEXT	75.0 dB
PS-NEXT	72.0 dB
ACR-N	44.0 dB
PS-ACR	41.0 dB
ACR-F	61.0 dB
PS-ACR-F	58.0 dB
Return Loss	17.0 dB

Nominal Velocity of Propagation approx. 76 %

Flame retardancy

Euro class according to EN 50399	D_{ca} s2 d1 a1
IEC	IEC60332-3-24; IEC60754-2; IEC 61034; IEC60332-1

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC^{FUTURE} COMPACT^{ZD}26 C7 S/FTP 4P	60013695	D_{ca} s2 d1 a1

UC^{FUTURE} COMPACT^{ZD}26 Cat.7 S/FTP 6x4P

S/FTP AWG26/1

PoE+

E_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801
Power over Ethernet (PoE) / Type 1 - 4. Meets at least the requirements of Class EA with a conductor diameter in AWG26 at a max. transmission length of 60m instead of 90m in Permanent Link.
Based on component standards for cables:
EN 50288-4-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 26
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	LSHF orange RAL 2003
Stranding to the total core	6x4 Couples + Filling Element to the core
Total sheath	LSHF orange RAL 2003
Outer diameter	19.2 mm

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Electrical data at 20°C

	System cut-off frequency at 600MHz
Attenuation / 10m	7.9 dB
NEXT	75.0 dB
PS-NEXT	72.0 dB
ACR-F	44.0 dB
PS-ACR-F	41.0 dB
Return Loss	17.0 dB

Nominal Velocity of Propagation approx. 76 %

Flame retardancy

Euro class according to EN 50399	E_{ca}
IEC	IEC60332-1; IEC60754-2; IEC 61034

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC^{FUTURE} COMPACT^{ZD}26 C7 S/FTP 6x4P	60011482	E_{ca}

UC^{FUTURE} COMPACT23 Cat.7 S/FTP 6x4P

S/FTP AWG23/1

PoE+ | C_{ca} CPR | E_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801
Power over Ethernet (PoE) / Type 1 - 4. Meets at least the requirements of class EA with a conductor diameter in AWG23 at a max. transmission length of 80m instead of 90m in the permanent link.
Based on component standards for cables:
EN 50288-4-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 23
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	LSHF orange RAL 2003
Stranding to the total core	6x4 Couples + Filling Element to the core
Total sheath	LSHF orange RAL 2003
Outer diameter	25.0 mm

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Electrical data at 20°C

	System cut-off frequency at 600MHz
Attenuation	44.8 dB
NEXT	85.0 dB
PS-NEXT	82.0 dB
ACR-F	60.0 dB
PS-ACR-F	57.0 dB
Return Loss	22.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	C_{ca} s1a d2 a1, E_{ca}
IEC	IEC60332-1; IEC60754-2; IEC 61034; IEC600332- 3-24

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC^{FUTURE} COMPACT23 C7 S/FTP 6x4P LSHF-FR C_{ca}	60065317	C_{ca} s1 d2 a1
UC^{FUTURE} COMPACT23 C7 S/FTP 6x4P LSHF E_{ca}	60015673	E_{ca}

UC^{FUTURE} COMPACT23 Cat.7 S/FTP 8x4P

S/FTP AWG23/1

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1 - 4. Meets at least the
Class EA requirements with a conductor diameter in AWG23 at a max. transmission length of 80m instead of 90m in permanent link.
Based on component standards for cables:
EN 50288-4-2, IEC 61156-6

Cable structure

Conductor	Cu-wire, bare, AWG 23
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	LSHF orange RAL 2003
Stranding to the total core	8x4 Couples + Filling Element to the core
Total sheath	LSHF orange RAL 2003
Outer diameter	27.1 mm

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Electrical data at 20°C

	System cut-off frequency at 600MHz
Attenuation	44.8 dB
NEXT	85.0 dB
PS-NEXT	82.0 dB
ACR-F	60.0 dB
PS-ACR-F	57.0 dB
Return Loss	22.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	E_{ca}
IEC	IEC60332-1; IEC60754-2; IEC 61034

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC^{FUTURE} COMPACT23 C7 S/FTP 8x4P LSHF	60015657	E_{ca}

UC LR22 10Gbit S/FTP LSHF-FR $B2_{ca}$; D_{ca}

S/FTP AWG22/1

Areas of application / Applicable standards

Related to system standards:
Multimedia installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173-1, ISO/IEC 11801, Power over Ethernet (PoE) Type 1 -4
105m Permanent Link PL2 guaranteed
120m range in Channel EA for 10Gbit transmissions guaranteed*/**
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5 IEC 61156-5; iEC61156-7; EN50288-9-1; IEEE 802.3af; IEEE 802.3at,IEEE 802.3bt

Cable structure

Conductor	Cu-wire, bare, AWG 22/1
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Overall screen	Copper braiding, tinned
Outer sheath	LSHF-FR $B2_{ca}$, D_{ca} / FRNC-C, blau RAL 5024
Outer diameter	8.5 mm

Electrical data at 20°C

	System cut-off frequency at 500MHz	Cable bandwidth at 1000MHz
Attenuation	39.5 dB	58.4 dB
NEXT	86.0 dB	82.0 dB
PS-NEXT	83.0 dB	79.0 dB
ACR-N	46.0 dB	24.0 dB
PS-ACR	43.0 dB	21.0 dB
ACR-F	51.0 dB	45.0 dB
PS-ACR-F	48.0 dB	42.0 dB
Return Loss	17.0 dB	17.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	$B2_{ca}$ s1a d1 a1, D_{ca} s2 d1 a1
IEC	IEC 60332-1; IEC 60332-3-24; IEC 60754-2; IEC 61034

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 2
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

*105m Permanent Link PL2 guaranteed
** Requires suitable components and patch cables

External quality monitoring

GHMT PVP

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC LR22 10Gbit S/FTP 4P LSHF-FR $B2_{ca}$	60066017	$B2_{ca}$ s1a d1 a1
UC LR22 10Gbit S/FTP 4P LSHF-FR 1000DW	60039920	D_{ca} s2 d1 a1
UC LR22 10Gbit S/FTP 4P LSHF-FR 500DW	60039572	D_{ca} s2 d1 a1

UC LR22 10Gbit S/FTP PE outdoor cable

S/FTP LONG REACH cable AWG22/1

Areas of application / Applicable standards

Related to system standards:
Multimedia installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173-1, ISO/IEC 11801,
Power over Ethernet (PoE) Type 1 -4
105m Permanent Link PL2 guaranteed
120m range in Channel EA for 10Gbit transmissions guaranteed*/**
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 22/1
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Overall screen	Copper braiding, tinned
Outer sheath	PE, black, Wdd. 1.0 mm, suitable for direct burial, UV-resistant
Outer diameter	9.2 mm

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

*105m Permanent Link PL2 guaranteed
** Requires suitable components and patch cables

Electrical data at 20°C

	System cut-off frequency at 500MHz	Cable bandwidth at 1000MHz
Attenuation	39.5 dB	58.4 dB
NEXT	86.0 dB	82.0 dB
PS-NEXT	83.0 dB	79.0 dB
ACR-N	46.0 dB	24.0 dB
PS-ACR	43.0 dB	21.0 dB
ACR-F	51.0 dB	45.0 dB
PS-ACR-F	48.0 dB	42.0 dB
Return Loss	17.0 dB	17.0 dB

Nominal Velocity of Propagation approx. 79 %

External quality monitoring

GHMT PVP

Product Code Table

Product description	PG Article number
UC LR22 10Gbit S/FTP 4P PE 1000DW	60039922
UC LR22 10Gbit S/FTP 4P PE 500DW	60041064
UC LR22 10Gbit S/FTP 4P PE	60039921

UC900 SS23 Cat.7 PE Outdoor Cable

S/FTP AWG23/1

PoE+

Areas of application / Applicable standards

Related to system standards:
Installation cable for outdoor use and primary building cabling according to EN 50173, ISO/IEC 11801
Suitable for HDBase-T, Power over Ethernet (PoE) / Type 1 - 4
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23/1
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	PE black RAL 9005, UV-resistant, can be laid directly in the ground
Outer diameter	8.4 m

Shielding properties

Transfer impedance	at 1 MHz	12 mΩ/m
	at 10 MHz	5 mΩ/m Grade 2
	at 30 MHz	30 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Electrical data at 20°C

	System cut-off frequency at 600MHz	Cable bandwidth at 1000MHz
Attenuation	44.0 dB	63.1 dB
NEXT	85.0 dB	80.0 dB
PS-NEXT	82.0 dB	77.0 dB
ACR-N	40.0 dB	17.0 dB
PS-ACR	37.0 dB	14.0 dB
ACR-F	61.0 dB	57.0 dB
PS-ACR-F	58.0 dB	54.0 dB
Return Loss	22.0 dB	20.0 dB

Nominal Velocity of Propagation approx. 79 %

Product Code Table

Product description	PG Article number
UC900 SS23 C7 S/FTP 4P PE	60011278
UC900 SS23 C7 S/FTP 4P PE 50RW	60015269
UC900 SS23 C7 S/FTP 4P PE 100RW	60015266
UC900 SS23 C7 S/FTP 4P PE 500DW	60011276
UC900 SS23 C7 S/FTP 4P PE 1000DW	60011277

UC900 HS23 Cat.7 PE Outdoor Cable

S/FTP AWG23/1

PoE+

Areas of application / Applicable standards

Related to system standards:
Installation cable for outdoor use and primary building cabling according to EN 50173, ISO/IEC 11801
Power over Ethernet (PoE) / Type 1 - 4
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23/1
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	PE black RAL 9005, UV-resistant, can be laid directly in the ground
Outer diameter	7.4 mm

Shielding properties

Transfer impedance	at 1 MHz	12 mΩ/m
	at 10 MHz	5 mΩ/m Grade 2
	at 30 MHz	30 mΩ/m
Coupling attenuation	80 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Electrical data at 20°C

	System cut-off frequency at 600MHz	Cable bandwidth at 1000MHz
Attenuation	44.0 dB	63.1 dB
NEXT	85.0 dB	80.0 dB
PS-NEXT	82.0 dB	77.0 dB
ACR-N	40.0 dB	17.0 dB
PS-ACR	37.0 dB	14.0 dB
ACR-F	61.0 dB	57.0 dB
PS-ACR-F	58.0 dB	54.0 dB
Return Loss	22.0 dB	20.0 dB

Nominal Velocity of Propagation approx. 79 %

Product Code Table

Product description	PG Article number
UC900 HS23 C7 S/FTP 4P PE	60026553
UC900 HS23 C7 S/FTP 4P PE 50RW	60026556
UC900 HS23 C7 S/FTP 4P PE 100RW	60026555
UC900 HS23 C7 S/FTP 4P PE 500DW	60026557
UC900 HS23 C7 S/FTP 4P PE 1000DW	60026558

UC^{FIBRE} U-V(ZN)HQBH

D22 (E_{ca})
Universal breakout cable with LS9 dry compact core (semi-tight)

E_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
Breakout cable with LS9 dry compact core (semi-tight) and strain relief, halogen-free, flame-retardant outer jacket. Suitable for splice connections and direct plug mounting.
The sheath can be opened accordingly to distribute the fibre optic elements. The cable is UV-resistant, non-metallic, halogen-free, flame-retardant, rodent-proof, longitudinally watertight with high tensile strength and therefore suitable for use in the riser area of buildings as well as for outdoor installation in conduits or for direct burial.
The areas of application include the LAN and data centre backbone.
Based on component standards for cables:
ISO 11801-1, EN 187 000, IEC 60794-2, EN 50 173-1, IEC 60794-2-20

Flame retardancy

LSHF	IEC 60332-1-2, IEC 60754-2; IEC 61034; Class E_{ca}

Cable structure

	D22 (E_{ca})
Ø 2.7 mm single element	LS9 dry compact core (semi-tight) ø 900 µm ± 50 µm Elements as strain relief LSZH sheath, in the same colour as the outer sheath, with number marking
Strain relief	Rod made of glass-fibre reinforced plastic with thickening made of LSHF materia
2-8 Individual elements	Stranded SZ-shaped around the central element
Winding	Polyester foil
Strain relief	Glass roving elements
Tear thread	Polyester thread
Sheath colour	Black
Outer sheath	FireBur®, Halogen-free flame-retardant thermoplastic sheathing compounds according to EN 50290-2-27, UV stabilised

Properties

IEC 60794-1-21/22

Property	Method	Values	
Fibre Quantity		2, 4, 6	8
Outer diameter Nominal [mm]	-	12	14
Nominal weight [kg/km]	-	120	225
Max. Tensile strength, installation [N]	-	4500	
Tensile strength, short-term [N]	E1	3600	
Tensile strength, permanent [N]	E1	1800	
Impact resistance [J]	E4	20 J	
Transverse compressive strength	E3	3000 N/ 100 mm	
Torsional strength	E7	5 cycles ± 1 revolution	
Min. bending radius	E11	75	75
Min. bending radius in operation	E18A	130	130
Temperature range	F1	Operation and installation Storage	-20 °C to 70 °C -40 °C to 70 °C
Min. bending radius of the 2.7 mm element	G01	With standard Fibres With MaxCap-BB-OMx Fibres With BendBright-XS Fibres	20 mm 7.5 mm 7.5 mm
Fire load [MJ/km] [kW/m]		2100 0.60	4200 2.05

Product Code Table

Cable	CPR	Description	Fibre Quantity	62.5/125 µm OM1	MaxCap-BB-OM3	MaxCap-BB-OM4	MaxCap-BB-OM5	BendBright G.657.A1	BendBright^{XS} G.657.A2
D22	E_{ca}	UC^{FIBRE} I/O B LSHF LS9 2.7	2	60019406	D22-2-OM3	D22-2-OM4	D22-2-OM5	60019213	D22-2-A2
	E_{ca}	UC^{FIBRE} I/O B LSHF LS9 2.7	4	D22-4-OM1	60019219	D22-4-OM4	D22-4-OM5	60019217	D22-4-A2
	E_{ca}	UC^{FIBRE} I/O B LSHF LS9 2.7	6	D22-6-OM1	D22-6-OM3	D22-6-OM4	D22-6-OM5	D22-6-A1	D22-6-A2
	E_{ca}	UC^{FIBRE} I/O B LSHF LS9 2.7	8	D22-8-OM1	60071797	D22-8-OM4	D22-8-OM5	D22-8-A1	D22-8-A2

UC900 SS23 Cat.7 PUR

S/FTP AWG23/1

PoE+

Areas of application / Applicable standards

Related to system standards:
Installation cable for indoor use and primary building cabling according to EN 50173, ISO/IEC 11801, Suitable for HDBase-T
Power over Ethernet (PoE) / Type 1 - 4
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23/1
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	PUR, green RAL 6018, oil-resistant
Outer diameter	7.5 mm

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Electrical data at 20°C

	System cut-off frequency at 600MHz	Cable bandwidth at 1000MHz
Attenuation	44.0 dB	63.1 dB
NEXT	85.0 dB	80.0 dB
PS-NEXT	82.0 dB	77.0 dB
ACR-N	40.0 dB	17.0 dB
PS-ACR-N	37.0 dB	14.0 dB
ACR-F	61.0 dB	57.0 dB
PS-ACR-F	58.0 dB	54.0 dB
Return Loss	22.0 dB	20.0 dB

Nominal Velocity of Propagation approx. 67 %

Oil resistance

According to VDE 0282-2 (mineral oil IRM 902 acc. ISO 1817)

Product Code Table

Product description	PG Article number
UC900 SS23 C7 S/FTP 4P PUR GN	60015294
UC900 SS23 C7 S/FTP 4P PUR GN 250DW	60071456
UC900 SS23 C7 S/FTP 4P PUR GN 500DW	60015297
UC900 SS23 C7 S/FTP 4P PUR GN 1000DW	60015299
UC900 SS23 C7 S/FTP 4P PUR BK	60049497
UC900 SS23 C7 S/FTP 4P PUR BK 1000DW	60049498

UC900 SS27 Cat.7 PUR

S/FTP AWG27/7

PoE+

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Power over Ethernet (PoE) / Type 1 - 4
Based on component standards for cables:
EN 50288-4-2, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 27/7
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	PUR, rot RAL 3000, ölbeständig
Outer diameter	5.9 mm

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „D“	

Electrical data at 20°C

	System cut-off frequency at 600MHz	Cable bandwidth at 1000MHz
Attenuation / 10m	7.9 dB	10.2 dB
NEXT	75.0 dB	71.0 dB
PS-NEXT	72.0 dB	68.0 dB
ACR-F	44.0 dB	40.0 dB
PS-ACR-F	41.0 dB	37.0 dB
Return Loss	17.0 dB	

Nominal Velocity of Propagation approx. 79 %

Oil resistance

According to VDE 0282-2 (mineral oil IRM 902 acc. ISO 1817)

Flame retardancy

IEC	IEC 60754-2; IEC 61034; IEC 60332-1

Product Code Table

Product description	PG Article number
UC900 SS27 C7 S/FTPp 4P PUR RD	60014327
UC900 SS27 C7 S/FTPp 4P PUR RD 100RW	60014328
UC900 SS27 C7 S/FTPp 4P PUR RD 500DW	60011459
UC900 SS27 C7 S/FTPp 4P PUR RD 1000DW	60014330
UC900 SS 27 4P PUR GR RAL 7035	60014324
UC900 SS 27 C7 S/FTPp 4P PUR GY 500DW	60014326
UC900 SS 27 C7 S/FTPp 4P PUR GR 1000DW	60025099

UC900 SS23 Cat.7 (L)H

S/FTP AWG23/1 with moisture barrier jacket

PoE+

Areas of application / Applicable standards

Related to system standards:
Installation cable for use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801 Suitable for HDBase-T, Power over Ethernet (PoE) / Type 1 - 4
No UV resistance, only for indoor application!
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23/1
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	LSHF, aluminium tape (aluminium layer jacket) longitudinally sealed with the outer jacket, black RAL 9005
Outer diameter	9.5 mm

Shielding properties

Transfer impedance	at 1 MHz	10 mΩ/m
	at 10 MHz	10 mΩ/m
	at 30 MHz	30 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „D“	

Electrical data at 20°C

	System cut-off frequency at 600MHz	Cable bandwidth at 1000MHz
Attenuation	44.0 dB	63.1 dB
NEXT	85.0 dB	80.0 dB
PS-NEXT	82.0 dB	77.0 dB
ACR-N	40.0 dB	17.0 dB
PS-ACR-N	37.0 dB	14.0 dB
ACR-F	61.0 dB	57.0 dB
PS-ACR-F	58.0 dB	54.0 dB
Return Loss	22.0 dB	20.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

IEC	IEC 60754-2; IEC 61034; IEC 60332-1; EN 50399 Class E_{ca}

Product Code Table

Product description	PG Article number
UC900 SS23 C7 S/FTP 4P (L)H BK	60015222
UC900 SS23 C7 S/FTP 4P (L)H BK 500DW	60015223
UC900 SS23 C7 S/FTP 4P (L)H BK 100DW	60015224

ICS IE SuperCat 5 24 Cat.5e

U/UTP Installation Cable for Outdoor use

Areas of application / Applicable standards

Generic cabling systems. Outdoor installations. Filled with compound to prevent water penetration

Cable structure

Conductor	Solid bare copper wire AWG24
Insulation	PE, Ø 1,0 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Lay up diameter	Ø 4,3 mm
Cable core filling	Waterproof compound to prevent moisture migration. To prevent water penetration and to ensure electrical properties even in continous wet conditions.
Sheath	PE, Black, UV stabilized

Electrical properties at 20°C

DC loop resistance		≤ 188 Ω/km
Resistance unbalance		≤ 2 %
Characteristic impedance	1 - 100MHz	100 ± 15 Ω
Capacitance	at 800 Hz	Nom. 52 nF/km
Nominal Characteristic impedance	at 100 MHz	100 ± 5 Ω
Nominal velocity of propagation		0,64 c

Standards

EN 50173-1; ISO/IEC 11801; EN 50288-3-1; IEC61156-5; EIA/TIA 568-B.2

Environmental resistance

Water penetration test: EN50289-4-2 method B
No flame protection – the cable is flammable, and should be used in outdoor application

Product Code Table

Product description	PG Article number
SuperCat 24 C5e U/UTP 4P OUTDOOR 305DP	60010244
SuperCat 24 C5e U/UTP 4P OUTDOOR	60015393

SuperCat 7 HS23 Cat.7

S/FTP AWG23/1

Areas of application / Applicable standards

Related to system standards:
SuperCat. 7, S/FTP Universal cable with filling compound to achieve longitudinal watertightness. For use in the primary, secondary and Tertiary area in structured building cabling according to EN 50173, ISO/IEC 11801, Power over Ethernet (PoE) / Type 1 - 4
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5

Cable structure

Conductor	Cu-wire, bare, AWG 23/1
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair, WBC-filled (Special sealing/mixture to prevent moisture migration.
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the soul, swelling yarn and swelling tape
	WBC-filled (special sealing/mixture to prevent moisture migration. Prevents water penetration and ensures electrical properties even in persistent wet conditions).
Overall screen	Copper braiding, tinned
Outer sheath	LSHF, UV-resistant, black RAL9005
Outer diameter	8.5 mm

Shielding properties

Transfer impedance	at 1 MHz	< 10 mΩ/m
	at 10 MHz	< 10 mΩ/m Grade 1
	at 30 MHz	< 30 mΩ/m
	at 100 MHz	< 100 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „D“	

Electrical data at 20°C

	System cut-off frequency at 600MHz
Attenuation	44.8 dB
NEXT	85.0 dB
PS-NEXT	82.0 dB
ACR-N	40.0 dB
PS-ACR-N	37.0 dB
ACR-F	61.0 dB
PS-ACR-F	58.0 dB
Return Loss	22.0 dB

Nominal Velocity of Propagation approx. 79 %

Flame retardancy

Euro class according to EN 50399	E_{ca}
IEC	IEC 60754-2; IEC 60332-1

Water resistance

IEC 60794-1-2F5, method B

Product Code Table

Product description	PG Article number
SuperCat 7 23 C7 S/FTP 4P LSHF	60014810
SuperCat 7 23 C7 S/FTP 4P LSHF 500DP	60014892

ToughCat 7

S/FTP AWG23/7

Areas of application / Applicable standards

Related to system standards:
ToughCat 7 is an S/FTP cable that has proven itself in harsh industrial applications on ships and offshore platforms. For use in primary, secondary and tertiary applications in structured building wiring according to EN 50173, ISO/IEC 11801; Power over Ethernet (PoE) / Type 1 - 4
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5
DNV-GL, LR and ABS approved / certified

Cable structure

Conductor	Cu-wire, bare, AWG 23/7
Insulation	Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	LSHF-FR, UV-resistant, SHF1, acc. to IEC60092-360, grey RAL7035
Outer diameter	8.1 mm

Shielding properties

Transfer impedance	at 1 MHz	< 10 mΩ/m
	at 10 MHz	< 8 mΩ/m Grade 1
	at 30 MHz	< 10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Electrical data at 20°C

	System cut-off frequency at 600MHz
Attenuation	45.7 dB
NEXT	71.0 dB
PS-NEXT	68.0 dB
ACR-N	25.0 dB
PS-ACR-N	22.0 dB
ACR-F	44.0 dB
PS-ACR-F	41.0 dB
Return Loss	20.0 dB

Nominal Velocity of Propagation approx. 79 %

Oil resistance

Mineral oils IRM 902 (IEC60811-404) : 7 days/23°C, 4 hours/70°C
Diesel - IRM 903 (IEC60811-404) : 7 days/23°C, 4 hours/70°C

Flame retardancy

Euro class according to EN 50399	D_{ca} s2 d1 a1, E_{ca}
IEC	IEC 60332-3-24; IEC 60754-2; IEC 61034; IEC 60332-1

External quality monitoring

Det Norske Veritas - Germanischer Lloyd (DNV-GL), Lloyds Register (LR) and American Bureau of Shipping (ABS)

Product Code Table

Product description	PG Article number
ToughCat C7 LSHF-FR 4x2/0.27mm2	60011617
ToughCat C7 LSHF-FR 4x2/0.27mm2 500DP	60015820
ToughCat C7 LSHF-FR 4x2/0.27mm2 1000DP	60030363

ToughCat 7S

S/FTP AWG23/1

Areas of application / Applicable standards

Related to system standards:
ToughCat 7 is an S/FTP cable that has proven itself in harsh industrial applications on ships and offshore platforms. For use in primary, secondary and tertiary applications in structured building cabling according to EN 50173, ISO/IEC 11801; Power over Ethernet (PoE) / Type 1 - 4
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5
DNV-GL and LR approved / certified

Cable structure

Conductor	Cu-wire, bare, AWG 23/1
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer jacket	LSHF-FR, UV-resistant, SHF1, acc. to IEC60092-360, Grey RAL7035
Outer diameter	7.6 mm

Shielding properties

Transfer impedance	at 1 MHz	< 10 mΩ/m
	at 10 MHz	< 10 mΩ/m Grade 1
	at 30 MHz	< 10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „D“	

Electrical data at 20°C

	System cut-off frequency at 600MHz
Attenuation	44.8 dB
NEXT	85.0 dB
PS-NEXT	82.0 dB
ACR-N	40.0 dB
PS-ACR-N	37.0 dB
ACR-F	61.0 dB
PS-ACR-F	58.0 dB
Return Loss	22.0 dB

Nominal Velocity of Propagation approx. 79 %

Oil resistance

Mineral oils IRM 902 (IEC60811-404) : 7 days/23°C, 4 hours/70°C
Diesel - IRM 903 (IEC60811-404) : 7 days/23°C, 4 hours/70°C

Flame retardancy

Euro class according to EN 50399	D_{ca} s2 d1 a1, E_{ca}
IEC	IEC 60332-3-24; IEC 60754-2; IEC 61034; IEC 60332-1

External quality monitoring

Det Norske Veritas - Germanischer Lloyd (DNV-GL)

Product Code Table

Product description	PG Article number
ToughCat C7S LSHF-FR 4x2/0.56	60015280
ToughCat C7S LSHF-FR 4x2/0.56 500DP	60015282

ToughCat 7 MUD

S/FTP AWG23/7

PoE+

E_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
ToughCat 7 MUD is an S/FTP cable based on the ToughCat 7, supplemented with a flame-retardant, halogen-free, low-smoke oil sludge resistant jacket. This cable has proven itself in harsh industrial applications on ships and offshore platforms. For use in primary, secondary and tertiary applications in structured building cabling in accordance with EN 50173, ISO/IEC 11801, Power over Ethernet (PoE) /
Type 1 - 4
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5

Electrical data at 20°C

	System cut-off frequency at 600MHz
Attenuation	44.8 dB
NEXT	85.0 dB
PS-NEXT	82.0 dB
ACR-N	40.0 dB
PS-ACR-N	37.0 dB
ACR-F	61.0 dB
PS-ACR-F	58.0 dB
Return Loss	22.0 dB

Nominal Velocity of Propagation approx. 79 %

Cable structure

Conductor	Cu-wire, bare, AWG 23/1
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Innermantel	LSHF-FR, SHF1, acc. to IEC60092-360, Grey RAL7035
Outer sheath	MUD, UV-resistant
Outer diameter	10.1 mm

Oil resistance

Mineral oils IRM 902 (IEC60811-404) : 7 days/23°C, 4 hours/70°C
Diesel - IRM 903 (IEC60811-404) : 7 days/23°C, 4 hours/70°C

Flame retardancy

Euro class according to EN 50399	E_{ca}
IEC	IEC 60332-3-24; IEC 60754-2; IEC 61034; IEC 60332-1

Shielding properties

Transfer impedance	at 1 MHz	< 10 mΩ/m
	at 10 MHz	< 10 mΩ/m Grade 1
	at 30 MHz	< 10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „D“	

External quality monitoring

Cables based on the proven Det Norske Veritas (DNV) -certified

Product Code Table

Product description	PG Article number
ToughCat MUD C7 S/FTP 4Px0.27mm2	60015692
ToughCat MUD C7 S/FTP 4Px0.27mm2 500DP	60015695

ToughCat 7S Armoured

S/FTP AWG23/1

PoE+

E_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
S/FTP cable with solid conductors for use in LAN installations in harsh, mechanically and electrically stressed environments such as ships and offshore platforms. For use in primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801, Power over Ethernet (PoE) / Type 1 - 4. High rodent protection.
Based on component standards for cables:
EN 50288-4-1, IEC 61156-5

Electrical data at 20°C

	System cut-off frequency at 600MHz
Attenuation	44.8 dB
NEXT	85.0 dB
PS-NEXT	82.0 dB
ACR-N	40.0 dB
PS-ACR-N	37.0 dB
ACR-F	61.0 dB
PS-ACR-F	58.9 dB
Return Loss	22.0 dB

Nominal Velocity of Propagation approx. 79 %

Cable structure

Conductor	Cu-wire, bare, AWG 23/1
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Inner sheath	oil-resistant, flame-retardant and halogen-free (LSHF-FR (SHF1), Ø 7.6 mm
Reinforcement	galvanised steel wire mesh, Wire diameter 0.25 mm, high rodent protection
Outer sheath	Oil-resistant, flame-retardant and halogen-free LSHF-FR (SHF1)
Outer diameter	10.6 mm

Oil resistance

Mineral oils IRM 902 (IEC60811-404) : 7 days/23°C, 4 hours/70°C
Diesel - IRM 903 (IEC60811-404) : 7 days/23°C, 4 hours/70°C

Flame retardancy

Euro class according to EN 50399	E_{ca}
IEC	IEC 60332-3-24; IEC 60754-2; IEC 61034; IEC 60332-1

Shielding properties

Transfer impedance	at 1 MHz	< 10 mΩ/m
	at 10 MHz	< 10 mΩ/m Grade 1
	at 30 MHz	< 10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „D“	

External quality monitoring

Cable based on the proven DNV-GL and LR certified ToughCat 7S

Product Code Table

Product description	PG Article number
ToughCat7S_SWB S/FTP 4x2/0.56	60027369
ToughCat7S_SWB S/FTP 4x2/0.56 500 DP	60027371

PATCH PRO FLEX CAT 7

PoE+

Areas of application / Applicable standards

Related to system standards:
Data connection cable for studio applications, suitable for video ethernet; IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; IEEE 802.5 16 MB; ISDN; FDDI; ATM
Suitable for outdoor use, but not for direct burial, Power over Ethernet (PoE) / Type 1 - 4
Based on component standards for cables:
IEC 61156-6; EN 50288-4-2

Electrical Properties

Characteristic impedance	@ 100 MHz	100 ± 5 Ω
Loop resistance	max.	250Ω/km
Resistance asymmetry	max.	2%
Signal runtime		460 ns/100m
Difference in running time	max.	10 ns/100m
Coupling resistance, nominal	1 MHz 10 MHz	25 mΩ /m 25 mΩ /m
Relative propagation speed		0.75 c
Capacity	nominal	43 nF/km
Capacity undamped	max.	700 pF/km

Cable structure

Conductor	Stranded copper wire, bare, Ø 0.14 mm²
Insulation	Foam-Skin PE, Ø 1.05 ±0.02mm
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite film
Stranding to the core	4 pairs (PiMF)
Shielding	Cu-braid tin-plated Ø 5.1 mm
Winding	Synthetic fleece
Outer sheath	DMC FLEX PUR, black, RAL 9005

Mechanical properties

Temperature range	@ 100 MHz	100 ± 5 Ω
	max.	250Ω/km

Product Code Table

Product name	Short designation	Outer diameter	Article number
		mm	
PATCH PRO FLEX CAT 7	Cat 7 SS26 4P FLEX PUR	6.4	60015173

RS 485 AWG24/7 1 to 4P

Bus Cable

Areas of application / Applicable standards
Multi conductor cable for RS 485 applications

Cable structure	
Conductor	stranded bare copper wire, AWG24/7, (cross section 0.22 mm²), Ø 0.60 mm
Insulation	PE Ø 1.75mm
Colour code*	Core A/Core B: white/blue, white/orange, white/ green, white/brown
Stranding	1P, 3P and 4P: 2 cores as a pair 2P: 4 cores as a quad
Screen	Overall screen: AL-PET-foil, overlapping + tinned copper drain wire AWG24/7 + tinned copper braid (min 85%)
Sheath	LSHF or PVC, black 9005 or grey 7031*

*other colours possible upon request

Electrical Properties at 20°C	
Conductor resistance (at 20 ± 5 °C)	≤ 83 Ω/km
aracteristic impedance at 1 MHz	120 Ω ± 20
Capacitance at 800 Hz (nominal)	<60 nF/km

Mechanical properties	
Bending radius - moving application -fixed application	≥ 10 x outer diameter of cable ≥ 5 x outer diameter of cable
Operating temperature	-40°C /+80°C

Flame protection
IEC 60332-1

Technical data

Formation	Cable diameter mm	Weight approx kg/km	Standard delivery length m
1P	5.9	40	1000
2P	6.9	59	1000
3P	9.1	84	1000

ICS FF FC 1x2xAWG18/1

FOUNDATION Fieldbus FC INST Cable

Areas of application / Applicable standards

Spur and trunk cable for fixed installation indoor and outdoor on racks in conduits, FastConnect-Assembly - Oil and grease resistant

Cable structure

Conductor	stranded bare copper wire, AWG24/7, (cross section 0.22 mm²), Ø 0.60 mm
Insulation	PE Ø 1.75mm
Colour code*	Core A/Core B: white/blue, white/orange, white/green, white/brown
Stranding	1P, 3P and 4P: 2 cores as a pair 2P: 4 cores as a quad
Screen	Overall screen: AL-PET-foil, overlapping + tinned copper drain wire AWG24/7 + tinned copper braid (min 85%)
Sheath	LSHF or PVC, black 9005 or grey 7031*

*other colours possible upon request

Electrical Properties at 20°C

Loop resistance	≤ 46 Ω/km
Characteristic impedance (at 31.25 kHz)	100 Ω ± 20 Ω
Mutual capacitance (at 1 kHz)	approx. 60 nF/km

Mechanical properties

Bending radius	
single bending	± 40 mm
repeated bending	± 80 mm
Temperature range	
Transport and storage	- 40°C to + 70°C
Installation	- 40°C to + 70°C - 5°C to + 50°C

Standards

IEC 61158 and IEC 61784, Cable type A acc. to FOUNDATION Fieldbus

Flame protection

IEC 60332-1-2

Technical data

Product name	Weight kg	Standard delivery length m	Tensile force N
ICS FF FC 1x2xAWG18/1	78	1000	175

ICS IE FC AWG22 Cat 5e

IE FC Installation Cable 2PxAWG22

Areas of application / Applicable standards
Installation Cable for for Industrial Ethernet as Type A (AWG22/1), Type B (AWG22/7) or Type C (AWG22/19) according to the flexibility needed. It is built as FastConnect-Assembly. Has limited oil and grease resistance

Cable structure	
Conductor	AWG22/1 (solid), AWG22/7 (flex) or AWG22/19 (extra flex)
Insulation	PE, Ø1.5 mm
Stranding	four cores as a quad, around a central filler
Identification	pair1: BU-WT, pair2: YE-OR
Wrapping	PET-Foil
Bedding	PVC or LSHF, Ø 4.0 mm
Static screen	PET-AL-Foil
Braid	tinned copper braid, coverage approx. 85%, Ø 4.7 mm
Sheath	PVC or LSHF, Ø 6.5 mm

Electrical Properties at 20°C	
Loop resistance	≤ 124 Ω/km
Characteristic impedance (at 1-100 MHz)	100 Ω ± 15 %
Mutual capacitance (at 1 kHz)	approx. 60 nF/km

Mechanical properties	
Bending radius single bending repeated bending	 ≥ 20 mm ≥ 50 mm
Temperature range	- 25°C to + 70°C (LSHF) -40°C/+80°C (PVC)

Standards
Customer specification

Flame protection
IEC 60332-1

Industrial Cat.6A Cable 10Gig Drag Chain Cat 6_A

S/UTP AWG24/7

Areas of application / Applicable standards

Data cable for Industrial Environment
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
Power over Ethernet (PoE) / Type 1-4
UV-resistant

The cable is for made for repeated movement application (Drag Chain). Tested with bending radius of 100mm and einer acceleration of 4m/s² achieves 3 Million cycles in environment temperature.

The transmission length must be maximum 40m in Permanent Link of ISO 11801 classes D, E, EA.
It is robust and good against abrasion, for the industrial environment, like in machinery and facilities. Also suited for the installation outdoors.

Cable structure

Conductor	Stranded tinned copper (AWG24/7)
Insulation	Polyethylene, Ø 0.96 mm
Pair	2 insulated wires to a pair
Core layup	4 pairs as core, non-metallic separator among pairs (Spline)
Wrap	Polyester tape
Inner jacket	HFFR, Ø 5.7 mm
Braid	Tinned Copper braid, coverage > 86%
Wrap	Polyester tape
Outer jacket	PUR, black RAL 9005, Ø 8,0 mm

Electrical Properties at 20°C

Loop resistance	≤ 200 Ω /km
Mutual capacitance at 800 Hz	Nom. 45 nF/km
Impedance (100 MHz)	100 ± 5 Ω

Mechanical properties

Bending radius	without tensile stress	≥ 7,5xD
	under tensile stress	≥ 10xD
Minimal bending radius by repeated movement	Without tension	≥ 12.5xD
Operating temperature	Storage	-40°C to + 75°C
	Installation	0°C to + 50°C
	Moving application	0°C to + 50°C

Standards

EN 50173-1; EN 50288-11-2; ISO/IEC 11801; IEC 61156-6; IEEE 802.3 af / at / bt

Flame protection

LSHF (FRNC) : IEC 60332-1 ; IEC 60754-2 ; IEC 61034

ICS PB DP FC 1x2xAWG22/1 LSHF-FR

PROFIBUS FC LSHF-FR Cable

Areas of application / Applicable standards

Installation cable for Profibus DP buses, according to IEC 61158-2.
- Halogen free and flame resistant
- Limited segment length (according to PROFIBUS-Net Manual)
- FastConnect-assembly
- UV-resistant
- Silicon free
- Limited oil and grease resistance

Cable structure

Conductor	bare copper wire, Ø 0.64 mm, (cross-section 0.32 mm²)
Insulation	foam-skin-PE, Ø 2.5 mm
Stranding	two cores as a Pair
Bedding	halogen free, filling the interstices Ø 5.4 mm
Static screen	PET-Al-Foil longitudinally applied
Braid	tinned copper braid, coverage approx. 60%
Sheath	halogen free, violet, Ø 8.0 mm

Electrical Properties at 20°C

Loop resistance	≤ 110 Ω/km
Characteristic impedance (Nominal)	150 Ω
Mutual capacitance (at 1 kHz)	< 30 nF/km

Mechanical properties

Bending radius single bending repeated bending	 ≥ 60 mm ≥ 80 mm
Temperature range	- 15°C to + 70°C - 15°C to + 70°C - 15°C to + 50°C

Flame protection

LSHF-FR: IEC 60332-1, IEC 60332-3-24, IEC 61034-2, IEC 60754-1/2
VDE 0482-266-2-4

ICS PB PA FC 1x2xAWG18/1

PROFIBUS PA FC INST Cable

Areas of application / Applicable standards

Spur and trunk cable for fixed installation indoor and outdoor on racks in dry conduits,
FastConnect-Assembly
- UV-estabilized
- Silicon free
- Limited Oil and resistant

Cable structure

Conductor	bare copper wire, Ø 1.05 mm, (cross-section AWG18)
Insulation	foam-skin-PE, Ø 2.55 mm
Stranding	two cores gn / rd to the Pair
Bedding	PVC or LSHF, filling the interstices
Static screen	PET-Al-Foil longitudinally applied
Braid	tinned copper Braid Coverage approx. 70%
Sheath	PVC or LSHF, Ø 8.0 mm, black RAL 9005

Electrical Properties at 20°C

Loop resistance	≤ 46 Ω/km
Screen resistance nominal	12 Ω/km
Characteristic impedance (at 31.25 kHz)	100 Ω ± 20 Ω
Mutual capacitance (at 1 kHz)	approx. 60 nF/km

Mechanical properties

Bending radius single bending repeated bending	 ≥ 60 mm ≥ 120 mm
Temperature range	-40°C/+70°C (PVC) -20°C/+70°C (LSHF)

Standards

IEC 61158 and IEC 61784
Cable type A acc. to Profibus PA

Flame protection

IEC 60332-1-2

Li-2YCxx 2P x 0.22 mm²

CanBus-Cable

Areas of application / Applicable standards

This cable is suitable for transmission of CANBUS signals, for fixed indoor and outdoor installation. It is available in different jackets, as PVC or PUR, according to the environment of installation, being the PUR excellent oil protected.

Cable structure

Conductor	stranded bare copper wire, 7 x 0.20 mm (0.22 mm²), Ø 0.60 mm
Insulation	Solid PE, Ø 1.75 ± 0.05 mm
Colour code	Pair 1: 1 x white, 1 x brown; Pair 2: 1 x yellow, 1 x green
Cable lay up	4 cores twisted to a star quad
Wrapping	1 x PET-foil, overlapping
Overall screen	Tinned copper braid, optical coverage ≥ 80%
Wrapping	1 x PET-foil under sheath
Sheath	PUR-NR, PUR, LSHF-FR or PVC, Ø 6.9 ± 0.2
Sheath colour	black, RAL 9005

Electrical Properties at 20°C

Loop resistance	≤ 110 Ω/km
Characteristic impedance (Nominal)	150 Ω
Mutual capacitance (at 1 kHz)	< 30 nF/km

Mechanical properties

Bending radius single bending repeated bending	 ≥ 60 mm ≥ 80 mm
Temperature range	- 15°C to + 70°C - 15°C to + 70°C - 15°C to + 50°C

Standards

ISO 11898-2; DIN 19245; EN 50170

Flame protection

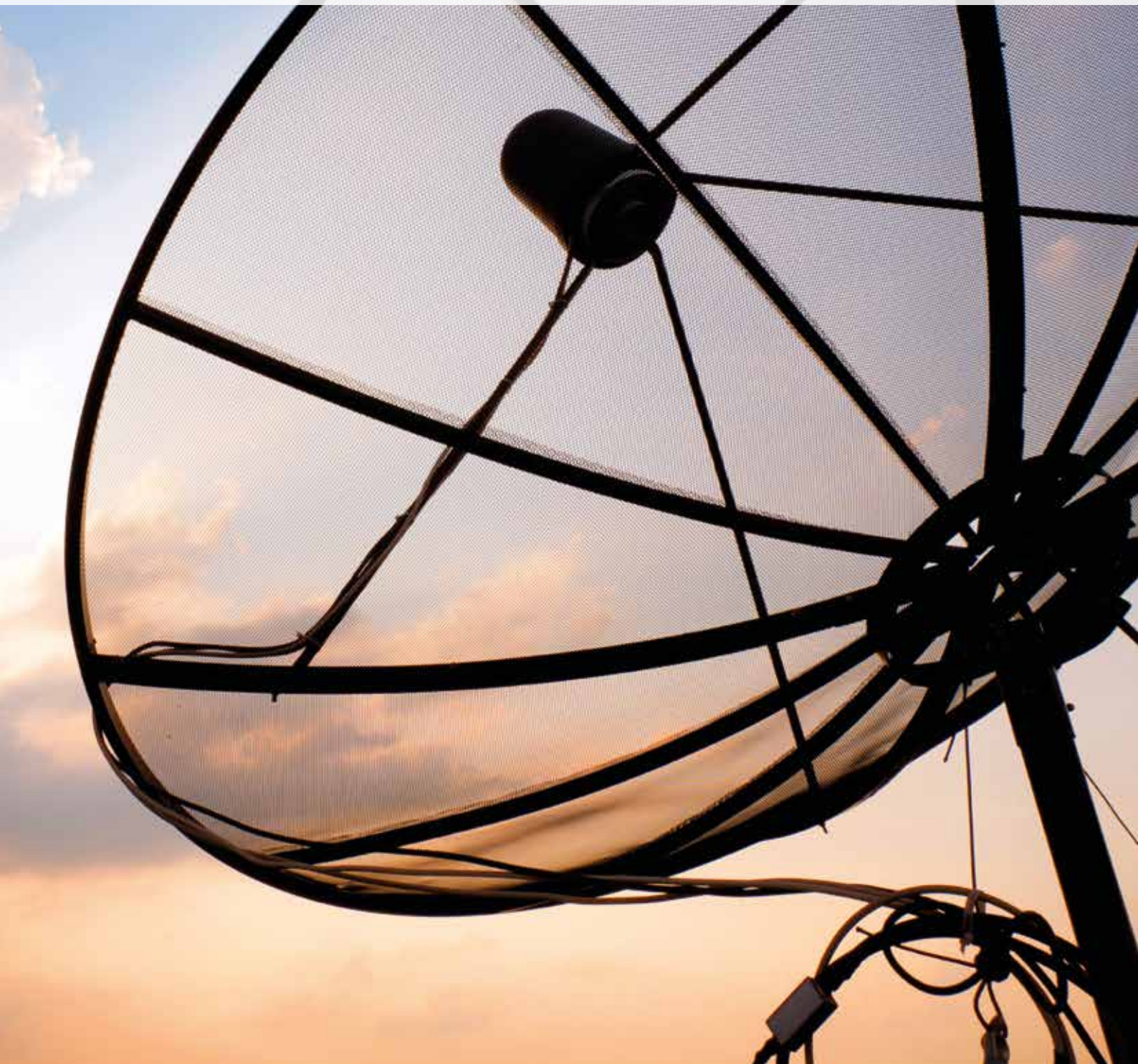
PUR-NR: no flame protection
PUR, PVC: IEC 60332-1
LSHF-FR: IEC 60332-1 / IEC 60332-3-22

Environmental properties

	PUR-NR	PUR	LSHF-FR	PVC
Operating temperature	-40°C / +85°C	-40°C / +80°C	-15°C / +70°C	-40°C / +90°C
UV resistance	No	Medium	Good	Good
Oil resistance	Excelent	Good	Average	Average

4. Coax cable

Draka CATV/antenna cables transmit data in TV and modern multimedia applications in the highest quality. New applications in cable television networks (CATV) such as broadband internet and services are a challenge for network operators, as they require cable constructions of high quality at all network levels, especially with regard to shielding classes, attenuation and service life.



COAX CABLE

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Coax15 AD 06 S

CATV drop cable

Areas of application

Subscriber cables are used in private and commercial distribution networks for television signals and as antenna lines for terrestrial and satellite reception for fixed installation.

Cable structure

Innenleiter	Cu-wire, solid, bare, diameter 0.65 mm
Insulation	gas foamed PE, diameter 2.95 mm
Outer conductor	Al-PET foil, longitudinally bonded with outer sheath, with overlying tinned copper braiding, optical coverage 80% + Al-PET film, longitudinally bonded with outer sheath, diameter 3.6 mm
Sheath	PVC alternatively FRNC, diameter 4.3 mm ± 0.2 mm white or black
Imprint	**DRAKA** COAX15 AD 06 S + metre marking + batch number

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	> 110 dB
	1000 MHz – 2000 MHz	> 100 dB
	2000 MHz – 3000 MHz	> 100 dB
Transfer impedance	5 MHz – 30 MHz	≤ 5 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m) Frequency (MHz)		Return loss (dB) Frequency (MHz)	
	nominal		
5	2.5	5 – 30	> 26
50	7 5	30 – 470	> 24
100	10.1	470 – 1000	> 20
200	13.9	1000 – 3000	> 18
400	20.1		
800	28.9		
862	30.0		
950	31.7		
1350	37.8		
1750	42.3		
2150	47.0		
3000	56.5		

Product Code Table

Product description	PG Article number
Coax15 AD 06 S PVC	60013766
Coax15 AD 06 S FRNC	60013767
Coax15 AD 06 S FRNC 500DW	60013769
Coax15 AD 06 S FRNC SW 500DW	60013770

Coax11 AD 08 S

CATV drop cable

Areas of application

Subscriber cables are used in private and commercial distribution networks for television signals and as antenna lines for terrestrial and satellite reception for fixed installation.
KDG Vodafone approved, shielding class A+

Cable structure

Inner conductor	Cu-wire, solid, bare, diameter 0.8 mm
Insulation	gas foamed PE, diameter 3.5 mm
Outer conductor	Al-PET foil, longitudinally bonded to the insulation, with tinned copper braiding above. optical coverage 80 % + Al-PET film longitudinally bonded to outer sheath, diameter 4.1 mm
Sheath	PVC alternatively FRNC, diameter 5.1 mm ± 0.2 mm white or black
Imprint PVC	**DRAKA** COAX11 AD 08 S PVC - Class A+ DIN EN 50117-2-4 + batch number + metre marking
Imprint FRNC	**DRAKA** COAX11 AD 08 S FRNC - Class A+ DIN EN 50117-2-4 + batch number + metre marking

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	> 110 dB
	1000 MHz – 2000 MHz	> 100 dB
	2000 MHz – 3000 MHz	> 100 dB
Transfer impedance	5 MHz – 30 MHz	≤ 5 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m) Frequency (MHz)		Return loss (dB) Frequency (MHz)	
	nominal		
5	1.9	5 – 30	> 26
50	5.7	30 – 470	> 24
100	7.8	470 – 1000	> 20
200	11.2	1000 – 3000	> 18
400	16.2		
800	22.6		
862	24.3		
950	25.1		
1350	31.0		
1750	36.3		
2150	41.3		
3000	48.8		

Product Code Table

Product description	PG Article number
Coax11 AD 08 S PVC ws no printing	60013756
Coax11 AD 08 S PVC ws no printing 500DW	60013758
Coax11 AD 08 S PVC ws no printing 1000DW	60013760
Coax11 AD 08 S FRNC ws	60014730
Coax11 AD 08 S FRNC ws 500DW	60014883

Coax10 AD 10 S Al

CATV drop cable

Areas of application

Subscriber cables are used in private and commercial distribution networks for television signals and as antenna lines for terrestrial and satellite reception for fixed installation.

Cable structure

Inner conductor	Cu-wire, solid, bare, diameter 1.02 mm
Insulation	physically foamed PE, diameter 4.57 mm
Outer conductor	PET-Al film Aluminium braiding, optical coverage >80 % Al -laminated plastic foil
Sheath	PVC according to EN 50290-2-22 TM51, Diameter 6.8 mm ± 0.2 mm, white
Imprint	**DRAKA** COAX10 AD 10 S Al + batch number + metre marking

Electrical data at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	2.0	5 – 30	> 26
50	5.0	30 – 470	> 24
100	6.8	470 – 1000	> 20
200	9.4	1000 – 2000	> 18
400	13.4	2000 – 3000	> 16
862	20.0		
950	21.0		
1350	24.7		
1750	28.4		
2150	31.7		
3000	38.0		

Product Code Table

Product description	PG Article number
Coax10 AD 10 S Al 200BR	60016703
Coax10 AD 10 S Al 500DP	60024867

Coax10 Trishield

CATV drop cable

Areas of application

Subscriber cables are used in private and commercial distribution networks for television signals and as antenna lines for terrestrial and satellite reception for fixed installation.
KDG Vodafone approved, shielding class A+

Cable structure

Inner conductor	Cu-wire, solid, bare, diameter 1.0 mm
Insulation	gas foamed PE, diameter 4.55 mm
Outer conductor	Al-PET foil, longitudinally bonded to the insulation, with tinned copper braiding above, + Al-PET film longitudinally bonded to outer sheath, diameter 5.5 mm
Sheath	FRNC, diameter 6.8 mm ± 0.2 mm white (RAL 9010)
Imprint	**DRAKA** COAX10 TRISHIELD FRNC - Class A+ DIN EN 50117-2-4 KDG 1 TS 153 XXX MM YY + batch number

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	≥ 110 dB
	1000 MHz – 2000 MHz	≥ 100 dB
	2000 MHz – 3000 MHz	≥ 100 dB
Transfer impedance	5 MHz – 30 MHz	≤ 5 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	1.6	5 – 30	> 26
50	4.3	30 – 470	> 24
100	6.2	470 – 1000	> 20
200	8.7	1000 – 3000	> 18
400	12.5		
862	18.6		
950	19.8		
1350	23.7		
1750	27.2		
2150	30.5		
3000	36.9		

Product Code Table

Product description	PG Article number
Coax10 Trishield A+ FRNC	60043632
KG Coax10 Trishield A+ FRNC WH 100RW	60045937
KG Coax10 Trishield A+ FRNC WH 500DW	60045938

Coax9 AD 11 S

CATV drop cable

Areas of application

Subscriber cables are used in private and commercial distribution networks for television signals and as antenna lines for terrestrial and satellite reception for fixed installation.
KDG Vodafone approved, shielding class A+

Cable structure

Inner conductor	Cu-wire, solid, bare, diameter 1.13 mm
Insulation	gas foamed PE, diameter 4.8 mm
Outer conductor	Al-PET foil, longitudinally bonded to the insulation, with tinned copper braiding above. optical coverage 70 % + Al-PET film longitudinally bonded to outer sheath, diameter 5.6 mm
Sheath	PVC alternatively FRNC or PE, diameter 6.8 mm ± 0.2 mm white or black
Imprint	**DRAKA** COAX9 AD 11 S FRNC - Class A+ DIN EN 50117-2-4 + batch number + metre marking

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	≥ 115 dB
	1000 MHz – 2000 MHz	≥ 105 dB
	2000 MHz – 3000 MHz	≥ 105 dB
Transfer impedance	5 MHz – 30 MHz	≤ 2.5 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	1.3	5 – 30	> 26
50	4.1	30 – 470	> 24
100	5.6	470 – 1000	> 20
200	8.2	1000 – 3000	> 18
400	11.8		
800	16.6		
862	17.1		
950	18.1		
1350	21.8		
1750	25.2		
2150	28.3		
3000	34.7		

Product Code Table

Product description	PG Article number
Coax9 AD 11 S PVC	60013825
Coax9 AD 11 S PVC 100RW	60013826
Coax9 AD 11 S PVC 500DW	60013828
Coax9 AD 11 S FRNC	60013829
Coax9 AD 11 S FRNC 100RW	60013830
Coax9 AD 11 S FRNC 500DW	60013831
Coax9 AD 11 S FRNC 250DW	60013832
Coax9 AD 11 S PE black 500DW	60013853
Coax9 AD 11 S A+ FRNC	60043630

Coax9 AD 11 A

CATV drop cable

Areas of application

Subscriber cables are used in private and commercial distribution networks for television signals and as antenna lines for terrestrial and satellite reception for fixed installation.

Cable structure

Inner conductor	Cu-wire, solid, bare, diameter 1.13 mm
Insulation	gas foamed PE, diameter 4.8 mm
Outer conductor	Al-PET-Al foil, longitudinal, with overlying tinned copper braiding, optical coverage 70 %, diameter 5.5 mm
Sheath	PVC alternatively FRNC, 6.8 mm ± 0.2 mm white
Imprint	**DRAKA** COAX9 AD 11 A FRNC - Class A DIN EN 50117-2-4 + batch number + metre marking

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	> 90 dB
	1000 MHz – 2000 MHz	> 85 dB
	2000 MHz – 3000 MHz	> 85 dB
Transfer impedance	5 MHz – 30 MHz	≤ 5 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	1.3	5 – 30	> 26
50	4.1	30 – 470	> 24
100	5.6	470 – 1000	> 20
200	8.2	1000 – 3000	> 18
400	11.8		
800	16.6		
862	17.1		
950	18.1		
1350	21.8		
1750	25.2		
2150	28.3		
3000	34.7		

Product Code Table

Product description	PG Article number
Coax9 AD 11 A PVC	60013969
Coax9 AD 11 A PVC 100RW	60013970
Coax9 AD 11 A PVC 500DW	60013971
Coax9 AD 11 A PVC 1000DW	60013972
Coax9 AD 11 A FRNC	60013973
Coax9 AD 11 A FRNC 100RW	60013974
Coax9 AD 11 A FRNC 500DW	60013975
Coax9 AD 11 A FRNC 1000DW	60013976
Coax9 AD 11 A FRNC 250DW	60013977

Coax6 CT 15 A FRNC/PE

CATV-Trunk-Kabel

Areas of application

BK cables are used in the line and distribution network of CATV and broadband communication networks between the head-end station and the house transfer point. They are suitable for direct burial and fixed installation in pipes and cable ducts.

Cable structure

Inner conductor	Cu-wire, bare, diameter 1.55 mm
Insulation	physically foamed PE, diameter 7.25 mm
Outer conductor	Cu-PET-Cu foil, longitudinal, with overlying bare copper braiding , optical coverage 60 %, diameter 8.2 mm
Sheath	PE, PVC or FRNC, diameter 10.1 mm ± 0.3 mm black or white
Imprint PVC	**DRAKA** COAX6 CT 15 A PVC - Class A DIN EN 50117-2-4 + batch number + metre marking
Imprint FRNC	**DRAKA** COAX6 CT 15 A FRNC - Class A DIN EN 50117-2-4 + batch number + metre marking
Imprint PE	**DRAKA** COAX6 CT 15 A PE - Class A DIN EN 50117-2-4 + batch number + metre marking

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	> 100 dB
	1000 MHz – 2000 MHz	> 95 dB
	2000 MHz – 3000 MHz	> 95 dB
Transfer impedance	5 MHz – 30 MHz	≤ 5 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	0.9	5 – 30	> 26
50	2.8	30 – 470	> 26
100	3.9	470 – 1000	> 24
200	5.7	1000 – 3000	> 20
400	8.3		
800	12.2		
862	12.7		
950	13.4		
1350	16.2		
1750	18.9		
2150	21.2		
3000	25.9		

Product Code Table

Product description	PG Article number
Coax6 CT 15 A FRNC	60014733
Coax6 CT 15 A FRNC 500DW	60014884
Coax6 CT 15 A PE	60013810
Coax6 CT 15 A PE 500DW	60013812

Coax6 AT 16 S

CATV-Trunk-Kabel

Areas of application

BK cables are used in the line and distribution network of CATV and broadband communication networks between the head-end station and the house transfer point. They are suitable for direct burial and fixed installation in pipes and cable ducts.
KDG Vodafone approved, shielding class A+

Cable structure

Inner conductor	Cu-wire, bare, diameter 1.61 mm
Insulation	physically foamed PE, diameter 7.15 mm
Outer conductor	Al-PET foil, longitudinal, bonded with insulation, with overlying tinned copper braiding, optical coverage 70%, + Al-PET foil longitudinal, bonded with outer sheath, diameter 8.1 mm
Sheath	FRNC, diameter 10.2 mm ± 0.3 mm black
Imprint PE	**DRAKA** COAX6 AT 16 S Trishield – FRNC Class A+ DIN EN 50117-2-4 KDG 1 TS 153 XXX MM YY+ batch number

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	> 115 dB
	1000 MHz – 2000 MHz	> 105 dB
	2000 MHz – 3000 MHz	> 105 dB
Transfer impedance	5 MHz – 30 MHz	≤ 5 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	0.9	5 – 30	> 26
50	2.8	30 – 470	> 26
100	3.9	470 – 1000	> 24
200	5.7	1000 – 3000	> 20
400	8.3		
800	12.2		
862	12.7		
950	13.4		
1350	16.2		
1750	18.9		
2150	21.2		
3000	25.9		

Product Code Table

Product description	PG Article number
Coax6 AT 16 S A+	60043631

Coax4 CT 22 S

CATV-Trunk-Kabel

Areas of application

BK cables are used in the line and distribution network of CATV and broadband communication networks between the head-end station and the house transfer point. They are suitable for direct burial and fixed installation in pipes and cable ducts. Shielding class A++

Cable structure

Inner conductor	Cu-wire, bare, diameter 2.2 mm
Insulation	physically foamed PE, diameter 8.8 mm
Outer conductor	welded copper pipe, diameter 9.5 mm
Sheath	PE, diameter 12.3 mm ± 0.3 mm black
Imprint	**DRAKA** COAX4 CT 22 S + batch number + metre marking

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	> 120 dB
Transfer impedance	5 MHz – 30 MHz	< 0.8 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	0.65	5 – 30	> 26
50	2.0	30 – 470	> 26
100	2.9	470 – 1000	> 23
200	4.2		
400	6.0		
800	8.7		
862	9.1		
950	9.6		
1350	11.3		
1750	13.3		
2150	15.1		
3000	18.0		

Product Code Table

Product description	PG Article number
Coax4 CT 22 S PE	60009599
Coax4 CT 22 S PE 500DW	60016723
Coax4 CT 22 S PE 1000DW	60016724

Coax4 CT 22 S

CATV-Trunk-Kabel

Areas of application

BK cables are used in the line and distribution network of CATV and broadband communication networks between the head-end station and the house transfer point. They are suitable for direct burial and fixed installation in pipes and cable ducts. Shielding class A++

Cable structure

Inner conductor	Cu-wire, bare, diameter 2.2 mm
Insulation	physically foamed PE, diameter 8.8 mm
Outer conductor	Cu-PET-CU film, longitudinal, with overlying bare copper braiding , optical coverage 60 %, diameter 9.5 mm
Sheath	PE, 12.3 mm ± 0.4 mm black
Imprint	**DRAKA** COAX4 CT 22 A (8.8) + metre marking + batch number

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	> 100 dB
Transfer impedance	5 MHz – 30 MHz	≤ 1 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	0.65	5 – 30	> 26
50	2.0	30 – 470	> 26
100	2.9	470 – 1000	> 23
200	4.2		
400	6.1		
800	8.9		
862	9.2		
950	9.7		
1350	11.5		
1750	13.6		
2150	15.3		
3000	18.2		

Product Code Table

Product description	PG Article number
Coax4 CT 22 A PE	60013795
Coax4 CT 22 A PE 500DW	60013797
Coax4 CT 22 A PE 1000DO	60013799

Coax3 CT 33 S

CATV-Trunk-Kabel

Areas of application

BK cables are used in the line and distribution network of CATV and broadband communication networks between the head-end station and the house transfer point. They are suitable for direct burial and fixed installation in pipes and cable ducts. Shielding class A++

Cable structure

Inner conductor	Cu-wire, bare, diameter 3.3 mm
Insulation	physically foamed PE, diameter 13.3 mm
Outer conductor	welded copper pipe, diameter 14.1 mm
Sheath	PE, diameter 17.1 mm ± 0.5 mm black
Imprint PE	**DRAKA** COAX3 CT 33 S + metre marking + batch number

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	> 120 dB
Transfer impedance	5 MHz – 30 MHz	< 0.8 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	0.4	5 – 30	> 26
50	1.3	30 – 470	> 26
100	1.9	470 – 1000	> 23
200	2.7		
400	4.0		
800	5.8		
862	6.0		
950	6.3		
1350	7.7		
1750	8.9		
2150	10.1		
3000	12.0		

Product Code Table

Product description	PG Article number
Coax3 CT 33 S PE	60009598
Coax3 CT 33 S PE 500DW	60016716
Coax3 CT 33 S (3.3/13.5) PE -01000DW	60016717

Coax3 CT 33 A

CATV-Trunk-Kabel

Areas of application

BK cables are used in the line and distribution network of CATV and broadband communication networks between the head-end station and the house transfer point. They are suitable for direct burial and fixed installation in pipes and cable ducts.

Cable structure

Inner conductor	Cu-wire, bare, diameter 3.3 mm
Insulation	physically foamed PE, diameter 13.5 mm
Outer conductor	Cu-PET-Cu foil, longitudinal, with overlying bare copper braiding , optical coverage 60 %, diameter 14.5 mm
Sheath	PE, diameter 17.1 mm ± 0.5 mm black
Imprint	**DRAKA** COAX3 CT 33 A (3.3/13.5) + batch number + metre marking

Electrical properties

Shielding effectiveness	30 MHz – 1000 MHz	> 100 dB
Transfer impedance	5 MHz – 30 MHz	≤ 1 mΩ/m

Electrical data at 20°C

Attenuation (dB/100m)		Return loss (dB)	
Frequency (MHz)		Frequency (MHz)	
	nominal		
5	0.4	5 – 30	> 26
50	1.0	30 – 470	> 26
100	1.8	470 – 1000	> 23
200	2.7		
400	4.0		
800	5.8		
862	6.0		
950	6.5		
1350	8.0		
1750	9.1		
2150	10.1		
3000	12.0		

Product Code Table

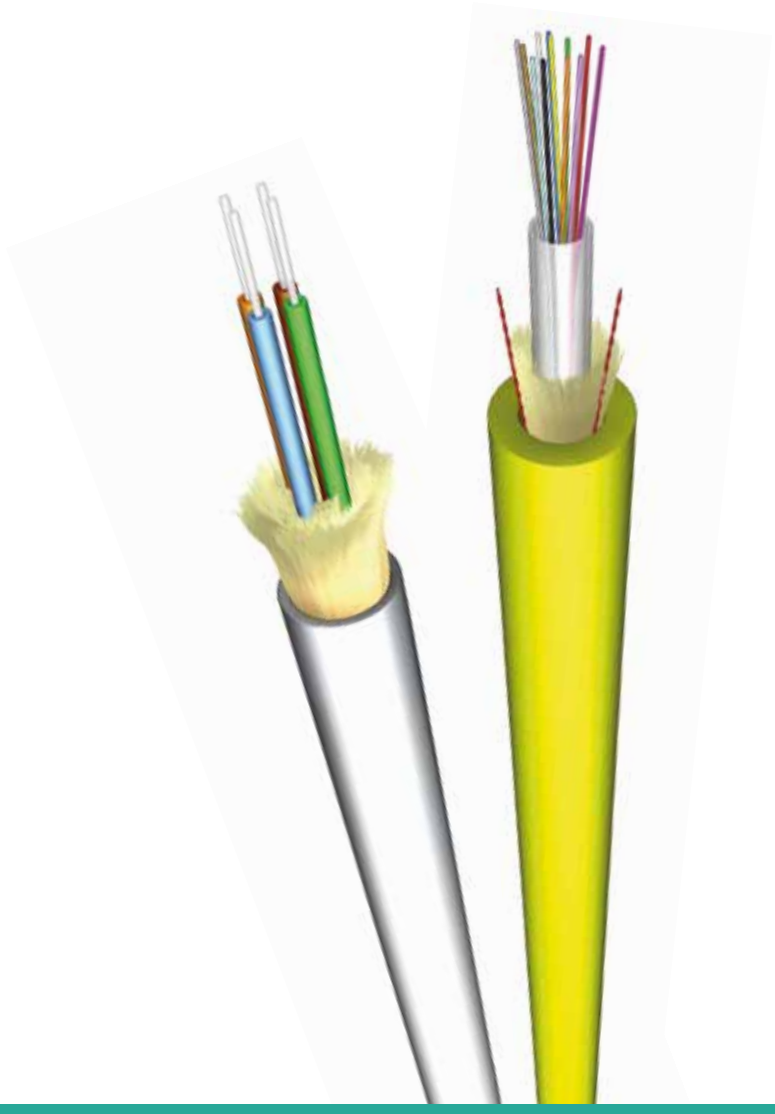
Product description	PG Article number
Coax3 CT 33 A PE	60013782
Coax3 CT 33 A PE 1000DO	60013784

5. HOME CABLE SOLUTIONS

Draka UC^{HOME} brand data cables offer future-proof and investment-proof home cabling solution, to meet the ever-increasing demands of multimedia applications, the growing number of home office home office and the increased installation of smart home systems.

HOME CABLE SOLUTIONS

UC^{HOME} Cat.7 SS26 S/FTP 90
UC^{HOME} Cat.7A SS22 S/FTP 91
UC^{HOME} Coax10 Trishield A+ - UC900 HS23 4P - 4xSM BBXS LSHF 92
UC^{HOME} Fibre idrop 250 Flex 93
UC^{HOME} Fibre idrop 900 I-VH 94
UC^{HOME} Fibre idrop 250 Drag&Blow 95



UC^{HOME} Cat.7 SS26 S/FTP 4P

S/FTP AWG26/1

PoE+ | C_{ca} CPR | D_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
Installation cables for use in home wiring, primary, secondary and tertiary areas in structured building cabling according to EN 50173, ISO/IEC 11801, Power over Ethernet (PoE) / Type 1 - 4
Meets at least the requirements of class EA with a conductor diameter in AWG26 at a max. transmission length of 60m instead of 90m in the permanent link.
Based on component standards for cables:
EN 50288-4-2, IEC 61156-6

Electrical data at 20°C

	System cut-off frequency at 600MHz
Attenuation	7.9 dB
NEXT	75.0 dB
PS-NEXT	72.0 dB
ACR-F	44.0 dB
PS-ACR-F	41.0 dB
Return Loss	17.0 dB

Nominal Velocity of Propagation approx. 76 %

Cable structure

Conductor	Cu-wire, bare, AWG 26
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	LSHF white E_{ca}
Outer diameter	C_{ca} 6.1mm; D_{ca} 5.8mm

Flame retardancy

Euro class according to EN 50399	D_{ca} s2 d2 a1
IEC	IEC60332-3-24; IEC60754-2; IEC 61034; IEC60332-1

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC^{HOME} Cat.7 SS26 S/FTP 4P LSHF-FR C_{ca}	60081483	C_{ca} s1a d1 a1
UC^{HOME} Cat.7 SS26 S/FTP 4P LSHF-FR C_{ca} 300BR	60089020	C_{ca} s1a d1 a1
UC^{HOME} Cat.7 SS26 S/FTP 4P LSHF	60026439	D_{ca} s2 d2 a1
UC^{HOME} Cat.7 SS26 S/FTP 4P LSHF 305BR	60026455	D_{ca} s2 d2 a1
UC^{HOME} Cat.7 SS26 S/FTP 4P LSHF 100RW	60032039	D_{ca} s2 d2 a1
UC^{HOME} Cat.7 SS26 S/FTP 4P LSHF 1000DW	60032038	D_{ca} s2 d2 a1
UC^{HOME} Cat.7 SS26 S/FTP 2x4P LSHF	60060698	D_{ca} s2 d2 a1
UC^{HOME} Cat.7 SS26 S/FTP 2x4P LSHF 100RW	60060750	D_{ca} s2 d2 a1
UC^{HOME} Cat.7 SS26 S/FTP 2x4P LSHF 250DW	60060699	D_{ca} s2 d2 a1
UC^{HOME} Cat.7 SS26 S/FTP 2x4P LSHF 500DW	60060697	D_{ca} s2 d2 a1

UC^{HOME} Cat.7$_A$ SS22 S/FTP

S/FTP AWG22

Areas of application / Applicable standards

Related to system standards:
Primary (Campus), Sekundary (Riser), Tertiary(Horizontal), Home Cabling (Smart Home)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T; 25GBase-T up 30m gem. ISO/IEC TR 11801-9905
Power over Ethernet (PoE) / Type 1-4
Based on component standards for cables:
50288-9-1, IEC 61156-5, IEC 61156-7

Electrical data at 20°C

	System cut-off frequency at 1000MHz	Cable bandwidth at 1500MHz
Attenuation	54,0 dB	66,0 dB
NEXT	83,0 dB	80,0 dB
PS-NEXT	80,0 dB	77,0 dB
ACR	29,0 dB	14,0 dB
PS-ACR	26,0 dB	11,0 dB
ELFEXT	40,0 dB	28,0 dB
PS-ELFEX	37,0 dB	25,0 dB
Return Loss	19,0 dB	15,0 dB

Nominal Velocity of Propagation approx. 79 %

Cable structure

Conductor	Cu-wire, bare, AWG 22
Insulation	Foam-Skin Polyethylen
Core colors	blue/white; orange/white; green/white; brown/white
Stranding	2 cores to pair
Pair shield	Aluminium-coated plastic composite foil
Stranding to the core	4 pairs (PiMF) to the core
Overall screen	Copper braiding, tinned
Outer sheath	LSHF-FR / FRNC-C, white
Outer diameter	7,6 mm

Flame retardancy

Euro class according to EN 50399	D_{ca} s1 d1 a1
IEC	IEC 60332-3-24; IEC 60332-1; IEC 60754-2; IEC 61034

External quality monitoring

GHMT PVP, 3P

Shielding properties

Transfer impedance	at 1 MHz	5 mΩ/m
	at 10 MHz	5 mΩ/m Grade 1
	at 30 MHz	10 mΩ/m
Coupling attenuation	85 dB Type 1 Disconnection class according to EN 50174-2 „d“	

Product Code Table

Product description	PG Article number	CPR- Class Construction Products Regulation
UC^{HOME} Cat.7$_A$ SS22 S/FTP LSHF-FR 200BR	60095153	D_{ca} s1 d1 a1

UC^{HOME} Coax10 Trishield A+ - UC900 HS23 4P - 4xSM BBXS LSHF

S/FTP AWG23/1

E_{ca} CPR

Areas of application / Applicable standards

Related to system standards:
For the simultaneous transmission of television and data signals. The included subscriber cables are used in private and commercial distribution networks for television signals and as antenna cables for terrestrial and satellite reception for fixed installation. Included CAT.7 for primary, secondary and tertiary use in structured building cabling according to EN 50173, ISO/IEC 11801 Suitable for HDBase-T
Based on component standards for cables:
For the Coax10 Trishield A+ the following applies:
Shielding class A+ according to EN 50117-2-1, EN 50117-2-2, EN 50117-2-4 and EN 50117-2-5, as well as EN 50083-2/A1, EN 50117-1. For the CAT.7 cable UC900 HS23 4P the following applies:
EN 50173-1; EN 50288-4-1; ISO/IEC 11801; IEC 61156-5
The following applies to the fibre optic element: Single mode fibres according to ITU G.657A2 and ITU G.657B2

Mechanical data bei 20°C

Bending radii over the flat side	without tensile load	≥ 90 mm
	with tensile load	≥ 140 mm
Operating temperature range	dormant	-20°C bis + 60°C
	moves	0°C bis + 50°C

Cable structure

Position of the elements	1xCoax10 A+ + 1xUC900 HS23 4P parallel side by side + 1xLWL element (4xSM BBXS)
Outer sheath	FRNC, white
Abmessungen	15.5 mm x 8.7 mm
Imprint	UCHOME Coax10 A+ + UC900 HS23 4P + 4xSM BBXS LSHF + batch number + metre marking

Flame retardancy

Euro class according to EN 50399	E_{ca}
IEC	IEC 60332-1

Product Code Table

Product description	PG Article number
UC^{HOME} Coax10 A+/UC900 HS23+4xBBXS	60078132
UC^{HOME} Coax10 A+/UC900 HS23+4xBBXS 500DW	60078133

UC^{HOME} FIBRE IDROP 250 Flex

IDROP 250 (D_{ca})
FTTH Cable, 4 and 8 fibres

$B2_{ca}$ CPR | C_{ca} CPR | D_{ca} CPR | E_{ca} CPR

Cable structure

	IDROP 250 Flex (D_{ca})
Micromodule	4 or 8 fibres G.657.A2 protected with an easy-strippable tight buffer (dry construction)
Peripheral Strength Member	Aramid yarne
Cable Sheath	2.8 mm, Natural LSZH-FR sheath

Standards

IEC EN 60794-2-20

EN 50399: Class $B2_{ca}$ s1a-d1-a1, Class C_{ca}, Class D_{ca}, Class E_{ca}
LSHF-FR (FRNC): IEC 60331-1-2

Properties — IEC 60794-1-21/22

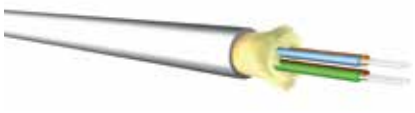
Properties	Test method	
Number of fibres	-	4, 8
Nominal outer diameter	-	2.8 mm
Nominal weight	-	4fo - 7.5kg/km ;8fo - 8kg/km
Tensile strength	E1B	500 N
Compressive strength (crush)	E3	500 N / 100mm
Cable bend	E11A	R = 10 x cable Ø, 6 turns, 10 cycles
Temperature range	F1	-10°C to +60°C (≤ 0.10 dB/Km)

Produkt Code Table

Cable	CPR	Product Description	Fibre Count	BendBright^{XS} G.657.A2
IDROP 250 Flex	$B2_{ca}$ - s1a, d1, a1	UC^{HOME} FIBRE IDROP 250 Flex	4	60066043
IDROP 250 Flex	$B2_{ca}$ - s1a, d1, a1	UC^{HOME} FIBRE IDROP 250 Flex	8	60066124

UC^{HOME} FIBRE IDROP 900

IDROP 900 (D_{ca})
FTTH Cable, 2 and 4 fibres



D_{ca} CPR

E_{ca} CPR

Cable structure

	IDROP 900 (D_{ca})
Fibre	2 - 4 semi-tightly LS9 buffered fibres 900 µm ± 50 µm.
Peripheral Strength member	Ultra-high modulus aramid yarns
Sheath	1 mm white LSHF-FR fire retardant FireRes®, UV stabilised, EN 50290-2-27

Standards

EN 187 000; IEC 60794-2; IEC 60794-2-20; ISO 11801-1; EN 50 173-1

LSHF-FR (FRNC): IEC 60332-1-2; IEC 60332-3-24; IEC 60754-1; IEC 60754-2; IEC 61034
EN 50399: Class D_{ca}-s2-d2-a1; Class E_{ca}

Properties — IEC 60794-1-21/22

Properties	Test method	
Permanent tensile strength (operation)	E1	280 N
Maximum installation load (installation)	-	500N
Impact	E4	20 J
Crush (compressive strength)	E3	1000 N/ 100 mm
Torsion	E7	5 cycles ± 1 turn
Temperature range	F1	Installation -10 °C to 50 °C Operation -10 °C to 50 °C Storage -10 °C to 50 °C

Product Code Table

Cable	CPR	Product Description	Fibre count	BendBright^{XS} G.657.A2
IDROP 900	D_{ca}-s1-d1-a1	UC^{HOME} FIBRE IDROP 900 I-VH	2	60066208
IDROP 900	D_{ca}-s1-d1-a1	UC^{HOME} FIBRE IDROP 900 I-VH	4	60066209

UC^{HOME} FIBRE IDROP 250 Drag&Blow

FTTH Indoor Drop cable with 4 and 12 BendBright®XS fibres

B2$_{ca}$ CPR | C$_{ca}$ CPR | D$_{ca}$ CPR | E$_{ca}$ CPR

Cable structure

	IDROP 250 Flex (D$_{ca}$)
Micromodule	4 or 12 fibres G.657.A2 protected with an easy-strippable dry tight buffer (dry construction)
Peripheral Strength Member	Aramid yarne
Ripcord	1
Cable Sheath	White LSZH-FR sheath

Standards

IEC EN 60794-2-20

EN 50399: Class B2$_{ca}$ s1a-d1-a1, Class C$_{ca}$, Class D$_{ca}$, Class E$_{ca}$
LSHF-FR (FRNC): IEC 60331-1-2

Properties

IEC 60794-1-21/22

Properties	Test method		
Number of fibres	-	4	12
Nominal outer diameter	-	2.3mm ± 0.15mm	2.8mm ± 0.2mm
Nominal weight	-	7	10
Permanent tensile strength	E1B	100 N (ΔI/I fibre ≤0.2%, Δα ≤ 0.5 dB)	
Maximum installation load	E1B	400 N (ΔI/I fibre ≤ 0.6%, Δα reversible)	
Compressive strength (crush)	E3	500 N/100mm, 1 min (≤ 0.15dB after test) 300 N / 100 mm, 5 min (≤ 0.15dB during test, cable integrity)	
Impact	E4	2.25 Nm, 3 impacts, R=300mm	
Repeated Bending	E6	R = 35 mm, mass 1 kg, 500 cycles	
Cable bend	E11	R = 10 x cable Ø	
Temperature range	F1	-10°C to +60°C (≤ 0.10 dB/Km, reversible)	

Produkt Code Table

Cable	CPR	Product Description	Fibre Count	BendBright^{XS} G.657.A2
IDROP 250 Flex	B2$_{ca}$ - s1a, d1, a1	UC^{HOME} FIBRE IDROP 250 Flex	4	60066043
IDROP 250 Flex	B2$_{ca}$ - s1a, d1, a1	UC^{HOME} FIBRE IDROP 250 Flex	8	60066124

Draka

A Brand of Prysmian Group

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FUTURE-ORIENTED **CABLING SOLUTIONS**

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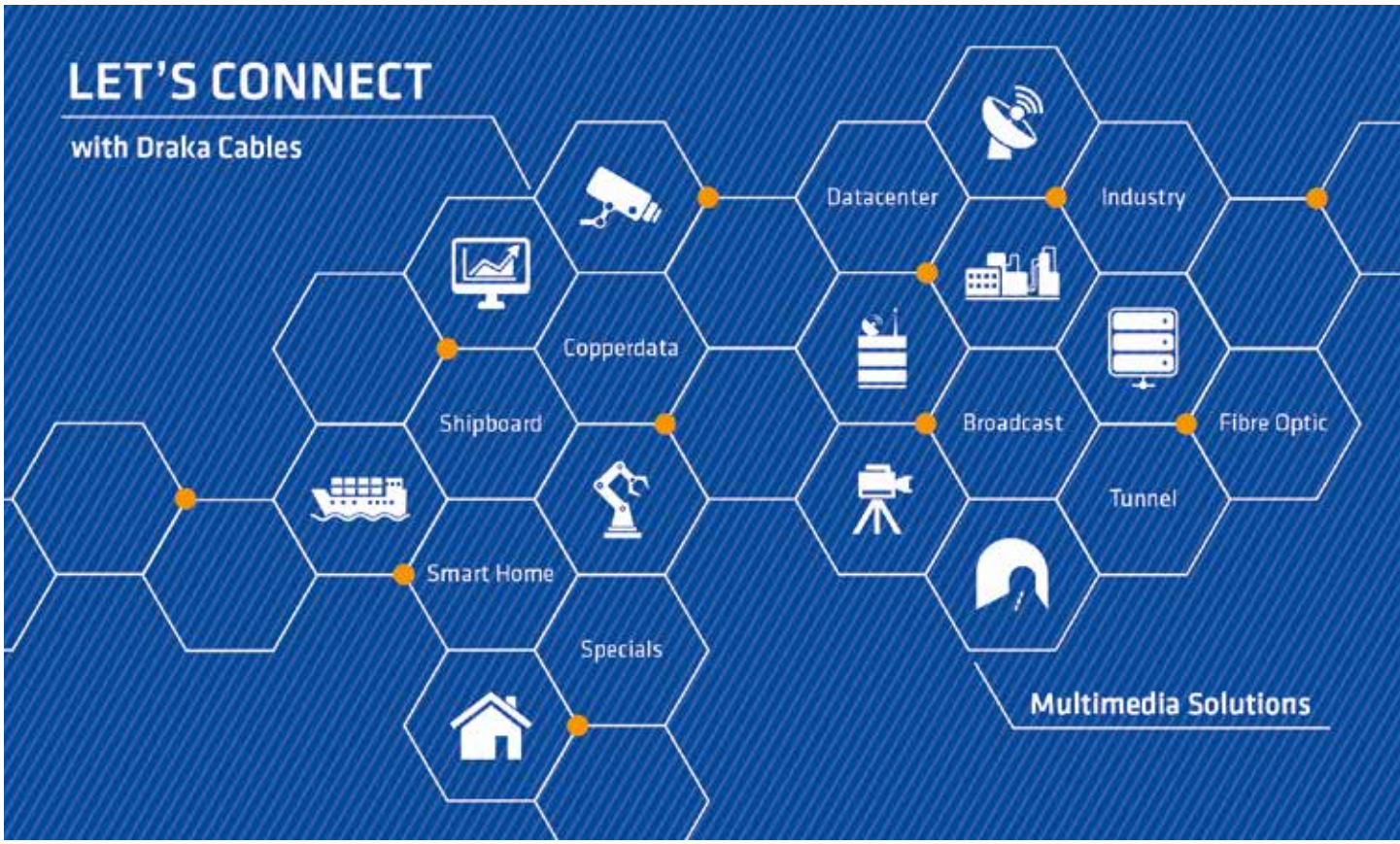

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