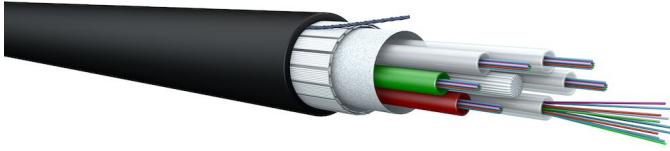


# H08a: UC<sup>FIBRE</sup> O ST PE 5.0 KN

5000N, outdoor, ST, up to 288f, glass yarns, LWB, black PE sheath



## GENERAL INFO

Fibre optic outdoor cable with stranded gel-filled loose tube design for structured cabling. Direct installation in the ground and suitable for trenchless installations using ploughing method. High tensile strength. Used for LAN, MAN and telecom backbones.

Latest version of this data sheet is available for download: [ProductFamily238679](#)

## CERTIFICATIONS AND DESIGN STANDARDS

**ISO/IEC 11801**

**EN 50173**

**IEC 60794-1-1**

**IEC 60794-1-21**

**IEC 60794-1-22**

Generic telecom cabling for customer premises  
Information technology - Generic cabling systems  
Generic Specification Fibre Optic Cables  
Mechanical Test Methods  
Environmental Test Procedures

## APPLICATION PROPERTIES

Resistant to UV

Outdoor installation With rodent protection

Operation temperature (min) [°C]

Installation temperature (min) [°C]

Storage temperature (min) [°C]

Bending radius (rule)

Good

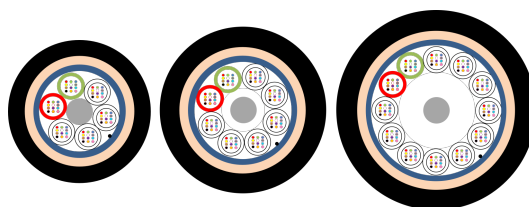
Yes

-40 and (max) [°C] 70

-20 and (max) [°C] 60

-30 and (max) [°C] 60

During installation (loaded) = 20xOD, Permanent (unloaded) = 10xOD



## CABLE CONSTRUCTION

Type of tube	Stranded loose tube with Ø2.3 mm gel-filled loose tubes with 12 fibres each for up to 144fo and Ø2.8 mm gel-filled loose tubes with 24 fibres each for over 144fo cables.
Water blocked	Yes
Rip cord	Yes
Armouring/reinforcement	E-glass yarns
Material outer sheath	1.5mm, Polyethylene (PE)
Cable shape	Round
Cable marking example	PRYSMIAN UCFIBRE O ST PE 5.0 kN 'Fibre count' 'Fibre type' 'Fibre brand' 'Item No' 'Factory Code' 'Batch Number' 'Meter mark' A-DQ(ZN)B2Y 'Number of Elements' x 'Fibre count per element' 'Fibre family' 'Mode field diameter' /125 'Transmission Class'

## IDENTIFICATION

Fibre colour code	1 Red	13 Red w/mark every 70mm
<i>in accordance with IEC 60794-2 and VDE 0888 <a href="#">read more</a></i>	2 Green	14 Green w/mark every 70mm
	3 Blue	15 Blue w/mark every 70mm
	4 Yellow	16 Yellow w/mark every 70mm
	5 White	17 White w/mark every 70mm
	6 Grey	18 Grey w/mark every 70mm
	7 Brown	19 Brown w/mark every 70mm
	8 Violet	20 Violet w/mark every 70mm
	9 Turquoise	21 Turquoise w/mark every 70mm
	10 Black	22 White w/mark every 35mm
	11 Orange	23 Orange w/mark every 70mm
	12 Pink	24 Pink w/mark every 70mm
Colour outer sheath	Black, RAL 9005	

## MECHANICAL PROPERTIES

Crush	IEC 60794-1-21 E3	3,000 N/10cm
Max. tensile strength during installation	IEC 60794-1-21 E1	5,000 N
Permanent tensile strength	IEC 60794-1-21 E1	1,800 N
Impact test	IEC 60794-1-21 E4	20 N·m
Torsion test	IEC 60794-1-21 E7	5 cycles ±1turn
Kink	IEC 60794-1-21 E10	The cables do not form a kink when a loop is drawn together to a diameter 20 times the cable nominal diameter.

## CABLE DETAILS

Number of fibres	Number of fibres per tube	Nominal outer diameter [mm]	Min. bending radius, fixed [mm]	Min. permitted bending radius, during cable laying [mm]	Cable weight [kg/km]
8	8	11.1	111	222	94
12	12	11.1	111	222	95
24	12	11.1	111	222	96
36	12	11.1	111	222	105
48	12	11.1	111	222	98
60	12	11.1	111	222	98
72	12	11.1	111	222	100
96	12	12.7	127	254	128
144	12	15.7	157	314	195
192	24	14.8	148	296	175
288	24	18.4	184	368	250

## ORDERING DETAILS

Product name	Number of fibres	Number of fibres per tube	Category (fibre)	Fibre datasheet	SAP code
UCFIBRE O ST PE 5.0kN 144 SM7A1 BK	144	12	OS2	C17	60019589
UCFIBRE O ST PE 5.0kN 48 SM7B BK	48	12	OS2	C24	60078101
UCFIBRE O ST PE 5.0kN 96 SM7B BK	96	12	OS2	C24	60078114
UCFIBRE O ST PE 5.0kN 24 SM7A1 BK	24	12	OS2	C53	60018825
UCFIBRE O ST PE 5.0kN 3X12 SM2D/A1 BK	36	12	OS2	C53	60098039
UCFIBRE O ST PE 5.0kN 48 SM7A1 BK	48	12	OS2	C53	60011310
UCFIBRE O ST PE 5.0kN 72 SM7A1 BK	72	12	OS2	C53	60019579
UCFIBRE O ST PE 5.0kN 8X24 SM2D/A1 BK	192	24	OS2	C53	60098029
UCFIBRE O ST PE 5.0kN 12X24 SM7A1 BK	288	24	OS2	C53	60083893
UCFIBRE O ST PE 5.0kN 48SM7A1 48OM2B BK	96	12	OS2+OM2	C34;C53	60031874
UCFIBRE O ST PE 5.0kN 12 OM3B +12 SM7A1 BK	24	12	OS2+OM3	C31;C53	60019690
UCFIBRE O ST PE 5.0kN 24 SM7A1+24 OM3B BK	48	12	OS2+OM3	C31;C53	60020463
UCFIBRE O ST PE 5kN 36 SM7A1+12 OM3B BK	48	12	OS2+OM3	C31;C53	60080589
UCFIBRE O ST PE 5kN 48 SM7A1+12 OM3B BK	60	12	OS2+OM3	C31;C53	60080586
UCFIBRE O ST PE 5.0 KN 24 OM2B BK	24	12	OM2	C34	60019420
UCFIBRE O ST PE 5.0 KN 48 OM2B BK	48	12	OM2	C34	60011446
UCFIBRE O ST PE 5.0 KN 8 OM3B BK	8	8	OM3	C31	60110048
UCFIBRE O ST PE 5.0kN 24 OM3B BK	24	12	OM3	C31	60085179
UCFIBRE O ST PE 5.0kN 48 OM3B BK	48	12	OM3	C31	60106869
UCFIBRE O ST PE 5.0kN 12 OM4B BK	12	12	OM4	C32	60079341
UCFIBRE O ST PE 5.0kN 24 OM4B BK	24	12	OM4	C32	60111662
UCFIBRE O ST PE 5.0kN 48 OM4B BK	48	12	OM4	C32	60019693
UCFIBRE O ST PE 5.0 KN 96 OM4B BK	96	12	OM4	C32	60027623
UCFIBRE O ST PE 5.0kN 24 MM61 BK	24	12	OM1	C02	60047001
UCFIBRE O ST PE 5.0kN 48 MM61 BK	48	12	OM1	C02	60062870

## ORDERING DETAILS

Product name	Number of fibres	Number of fibres per tube	Category (fibre)	Fibre datasheet	SAP code
UCFIBRE O ST PE 5kN 12SM7A1 12MM61 BK	24	12	OS2+OM1	C02;C53	60028423
UCFIBRE O ST PE 5.0kN 24SM7A1 12MM61 BK	36	12	OS2+OM1	C02;C53	60079163
UCFIBRE O ST PE 5.0KN 36SM7A1 12MM61 BK	48	12	OS2+OM1	C02;C53	60058504
UCFIBRE O ST PE 5kN 24SM7A1 24MM61	48	12	OS2+OM1	C02;C53	60029178
UCFIBRE O ST PE 5.0kN 36SM7A1 36MM61 BK	72	12	OS2+OM1	C02;C53	60064661
UCFIBRE O ST PE 5kN 48SM7A1 24MM61 BK	72	12	OS2+OM1	C02;C53	60075879
UCFIBRE O ST PE 5kN 36 SM7A1 +36 OM3B BK	72	12	OS2+OM3	C17;C31	60103798
UCFIBRE O ST PE 5.0 kN 24SM7A1 24OM4B BK	48	12	OS2+OM4	C32;C53	60110018

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