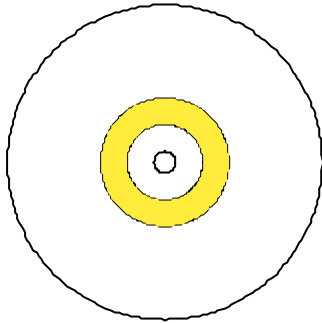


## FTTH indoor subscriber cable

1 BendBright<sup>XS</sup> fibre, ES9, aramid yarns and LSZH sheath

EN 50 173-1

IEC 60794-2-20



### Application

The intended application is as FTTH subscriber cable for indoor visible installation.

The cable may be used for outdoor visible installation, as the cable sheath is weather resistant and UV resistant. The cable may be blown into micro tubes, for a short distance between telecom closet and subscriber.

### Standards

EN 187 000  
 IEC 60794-2  
 IEC 60794-2-20  
 ISO 11801 2<sup>nd</sup> edition  
 EN 50 173-1

### Construction

Fibre	1 white ES9 buffered BendBright <sup>XS</sup> fibre 900 $\mu\text{m} \pm 50 \mu\text{m}$ .
Strength member	Aramid yarn
Sheath	1.1 mm UV stabilised, fire retardant FireRes <sup>®</sup> material, according to EN 50290-2-27.
Sheath colour	White: RAL 9001

### Fire rating

IEC 60332-1-2	Single vertical wire test
IEC 60332-3-24 = IEC 332-3C	Vertically-mounted bunched wires and cables
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

## FTTH indoor subscriber cable

### Physical properties

IEC 60974-1-2

Nominal diameter	-	3.7 mm
Nominal weight	-	15 kg/km
Permanent tensile strength	E11	280 N
Short term tensile strength (some days)		560 N
Maximum installation load (a few hours)		1000 N
Kink	E10	No kink
Impact	E4	1.0 J; R = 12.5 mm
Crush	E3	3000 N/ 100 mm
Torsion	E7	5 cycles $\pm$ 1 turn
Cable bend	E11	R = 15 mm: 6 turns around a $\varnothing$ 30 mm mandrel (maximum attenuation increase < 0.02 dB at 1550 nm). R = 10 mm: 1 turn (maximum attenuation increase < 0.03 dB / turn at 1550 nm). R = 7.5 mm: 1 turn (maximum attenuation increase < 0.5 dB / turn at 1550 nm).
Minimum bend radius under load	-	R = 50 mm
Temperature range	F1	Operation and Installation -20°C to 70°C Storage -40°C to 70°C
Heat of combustion	-	370 MJ/km 0.10 kWh/m

### Transmission characteristics

IEC 60793-2

Maximum attenuation 1310 nm – 1550 nm	$\leq$ 0.39 dB/km
Maximum attenuation at 1550 nm	$\leq$ 0.25 dB/km
Other fibre properties	Refer to fibre data sheet C24

### Order information

<i>Variant</i>	<i>Draka Comteq material code</i>	<i>Draka DK Item number</i>
Variant without marking	1022646	TB001SM-70-3913