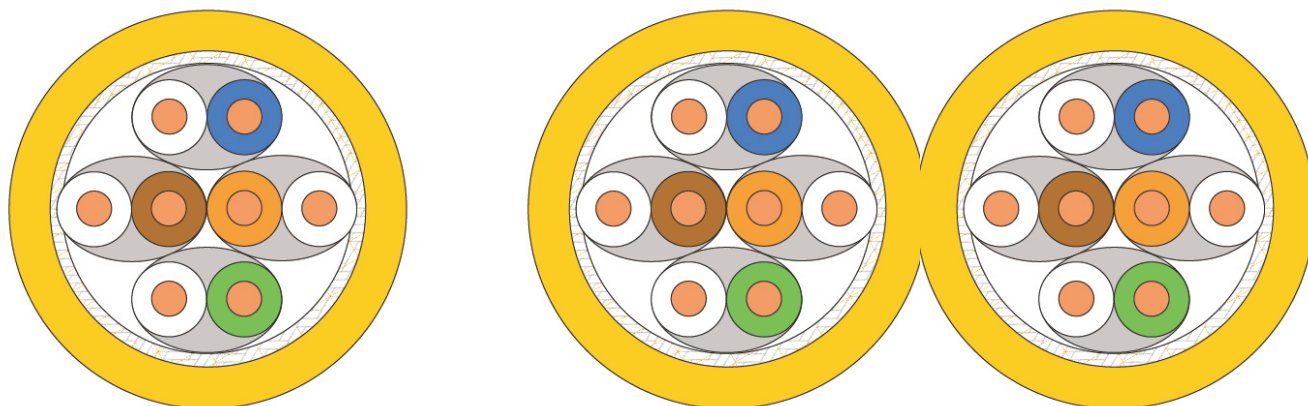


## Technical Specification

BKT 695 S/FTP cat.7 installation cable

TS\_BKT695 S/FTP\_01.15



## Application

Primary (Campus), Secondary(Riser), Tertiary (Horizontal)

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T IEEE 802.5 16 MB; ISDN; TPDDI; ATM

## Standards

EN 50173-1  
ISO/IEC 11801  
IEC 61156-5

## Flame resistance

FRNC (LSHF, LSOH, LSZH); IEC 60332-1; IEC 60754-2; IEC 61034

## Construction

<b>Conductor</b>	Bare copper wire $\varnothing$ 0.56 mm (AWG 23)
<b>Insulation</b>	Polyethylene, $\varnothing$ 1.4 mm
<b>Twisting</b>	2 cores to the pair
<b>Pair screen</b>	Al - laminated aluminium foil
<b>Cable lay up</b>	4 pairs (PiMF) to the core
<b>Screen</b>	Copper braid, tinned
<b>Sheath</b>	LSHF (FRNC, LSOH), yellow 1021

**Technical Specification**

BKT 695 S/FTP cat.7 installation cable

TS\_BKT695 S/FTP\_01.15

**Mechanical properties**

Bending radius	installation	$\geq 30$ mm
	installed	$\geq 60$ mm
Temperature range	during operation	-20°C to +60°C
	during installation	0°C to +50°C

**Electrical properties**

at 20°

DC Loop resistance		$\leq 145$ $\Omega$ /km
Resistance unbalance		$\leq 2\%$
Insulation resistance	[500V]	$\geq 5000$ M $\Omega$ km
Mutal capacitance	[800Hz]	nom. 44 nF/km
Capacitance unbalance	[pair/ground]	$\leq 800$ pF/km
Characteristic impedance	[100 MHz]	(100 $\pm$ 5) $\Omega$
Nominal velocity of propagation	NVP	75%
Propagation delay		$\leq 500$ ns/100m
Delay skew		$\leq 20$ ns/100m
Test voltage	[DC, 1min]	1000 V
Coupling attenuation		$\geq 80$ dB
Transfer impedance	At 10MHz	$\leq 30$ m $\Omega$ /m
	At 30MHz	$\leq 40$ m $\Omega$ /m

**Transmission characteristics**

to cat. 7 at 20°C

F (MHz)	Attenuation (dB)	RL (dB)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (min/dB)
4.0	3.6	27	90	87	86	83	85	82
10.0	5.6	27	90	87	84	81	79	76
20.0	7.9	27	90	87	82	79	73	70
62.5	14.3	27	90	87	76	73	63	60
100.0	18.2	27	90	87	72	69	59	56
250.0	29.7	25	86	83	56	53	51	48
300.0	32.8	23	86	83	54	50	49	46
600.0	48.1	20	84	83	36	33	42	39
695.0	52.5	19	80	77	27	24	41	38

## Technical Specification

BKT 695 S/FTP cat.7 installation cable

TS\_BKT695 S/FTP\_01.15

## Technical Data

Product code	Cable type	Product name	Outer diameter mm	Fire load		Weight kg/km	Tensile Force N
				MJ/km	KWh/m		
10154610.500	J-02YSCH 4x2x0,56 PiMF	BKT 695 23 cat. 7 S/FTP 4P FRNC	6,9	585	0,162	50,2	100
10154610.500D	J-02YSCH 2x(4x2x0,56) PiMF	BKT 695 23 cat. 7 S/FTP 4P FRNC DUPLEX	6,9x13,8	1170	0,325	100,4	100