



Construction:

Conductor	Stranded copper wire 0,48mm
Insulation	Polyethylene, 0,95mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	Al-laminated plastic foil and tinned copper braid
1 st Sheath	FRNC
Separating layer material	Talkum
2 nd Sheath	FLEX PUR black

Technical Data:

Outer diameter	5,7mm (FRNC) / 7,0mm (PUR)
Copper content	23 kg/km
Tensile force	100N

Mechanical Properties:

Bending radius	≥ 20 mm without load ≥ 40 mm with load
Temperature range	-20 °C up to 60 °C during operation 0 °C up to 50 °C during installation

Electrical Properties:

DC loop resistance	≤ 260 Ω/km
Resistance unbalance	≤ 3%
Insulation resistance (500V)	≥ 2000 MΩ/km
Capacitance at 800 Hz	nom. 48 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Characteristic impedance (1-100 MHz)	(100 ± 15) Ω
Nominal velocity of propagation	approx. 67%
Propagation delay	≤ 535 ns/100m
Delay skew	≤ 20 ns/100m
Test voltage (DC, 1 min)	1000 V

Frequency	1	4	10	16	20	31,2	62,5	100	155,5	200	300
Attenuation (dB/100m)	0,3	0,6	0,9	1,1	1,3	1,6	2,4	3,0	3,6	4,1	4,8
NEXT (dB)	71	62	56	53	51	49	44	41	38	36	34
PS-NEXT (dB)	68	59	53	50	48	46	41	38	35	33	31
ELFEXT (dB/100m)	68	56	48	44	42	38	32	28	24	22	16
PS-ELFEXT (dB/100m)	65	53	45	41	39	35	29	25	21	19	13
Return Loss (dB)	23	23	23	23	23	23	23	23			

