



Construction:

Conductor	Bare copper wire 0,51mm
Insulation	Polyethylene, 1,0mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	Al-laminated plastic foil, Drain wire AWG26 tinned
Sheath	PVC, grey RAL 7032

Technical Data:

Outer diameter	5,9 mm
Fire load	430 MJ/km 0,119 kWh/m
Weight	36 kg/km
Copper content	19,8 kg/km
Tensile force	80N

Mechanical Properties:

Bending radius	≥ 25 mm without load ≥ 50 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	≤ 190 Ω/km
Resistance unbalance	≤ 2%
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)	1,9	3,7	6,0	7,6	8,5	10,7	15,7	19,8	24,2	27,5	32,0
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
ACR (dB/100m)	69,1	58,3	50,0	45,4	42,5	38,3	28,3	21,2	13,8	8,5	2,0
PS-ACR (dB/100m)	66,1	55,3	47,0	42,4	39,5	35,3	25,3	18,2	10,8	5,5	-1,0
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)	20	23	25	25	25	24	22	20			