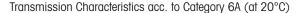


STP Category 6A Installation Cable

This Signamax cable for Category 6A and Class $\rm E_A$ systems is manufactured to the highest quality standards. It easily exceeds the performance specifications for Category 6A defined in the ANSI/TIA/EIA 568C.2 standard and also for Class $\rm E_A$ defined in the ISO/IEC 11801 Amendment 2.0. The Signamax Category 6A installation cable is designed using high performance materials and special aluminum foil shielding to guarantee maximum reliability. The cable is tested up to 500 MHz and ensures excellent Alien Cross Talk elimination. This Category 6A cable is especially suitable for all new high-speed and high-bandwidth data protocols, such as 10GBaseT. Sheath material is supported by fire retardant, low smoke, and halogen free compounds, both LSOH and LSOHFR. The color of the Signamax Category 6A cable is grey (RAL 7035).



f (MHz)	Attenuation (dB/100 m)	NEXT (dB)	ACR-N (dB/100 m)	Return loss (dB)
1	1.8	100	98	-
4	3.4	100	97	27
10	5.4	100	95	30
16	6.8	100	93	30
20	7.7	100	92	30
31.2	9.6	100	90	30
62.5	13.7	100	86	30
100	17.4	100	83	30
125	19.5	95	75	26
155	21.9	94	72	26
175	23.3	93	70	25
200	25.0	92	67	25
250	28.1	90	62	24
300	30.9	89	58	25
400	38.3	87	48	23
500	43.0	86	43	23

STP Category 6A Installation Cable

PART NO.	DESCRIPTION	
BC6A-4S-HF	Category 6A STP Installation Cable, 500 m reel, LSOH	

LSOHFR cable is available on request.



ELECTRICAL PROPERTIES AT 20°C ±5°C

Loop Resistance: $\leq 145~\Omega/km$ Resistance Unbalance: $\leq 2\%$ Insulation Resistance (500 V): \geq 2,000 M Ω *km Mutual Capacitance at 800 Hz: 45 nF/km Capacitance Unbalance (pair/ground): \leq 800 pF/km Nominal Velocity of Propagation: 75% Propagation Delay: < 500 ns/100 m Delay Skew: < 20 ns/100 m

MECHANICAL PROPERTIES

Bending Radius Installation: 8 x outer diameter Bending Radius Installed: 4 x outer diameter

TEMPERATURE RANGE

During Operation: -20° to +60°C During Installation: 0° to +50°C

CONSTRUCTION

Conductor: bare copper wire, Ø 0.565 mm (AWG 23) Insulation: PE, Ø 1.4 mm

IIISUIUIIOII: PE, Ø 1.4 III

FIRE CLASSIFICATION

LSOH: IEC 61034-2, IEC 60754-2, IEC 60332-1-2

LSOHFR: IEC 61034-2, IEC 60754-2,

IEC 60332-3-24 available on request