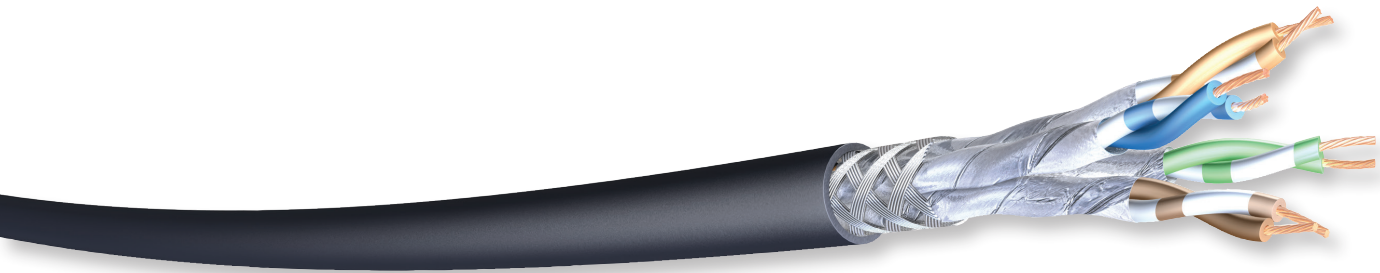


CAT.7 SU/FTP Tactical Ethernet <1000MHz> PUR FHF

Event[®] **studio**

Event[®] **tour**



Application

Flexible data cable for analogue and digital signal transmission in the frequency range up to 1000 MHz. Very robust due to use of stranded wires for link lengths up to 100 m. Use: IEEE 802.3: 10/100/1000/10GBase-T; IEEE 802.5: FDDI, ISDN, ATM, PoE

Cable Design

Conductor	Bare copper wire (23/7awg)
Core Insulation	SFS-PE
Core Stranding	cores twisted to pairs
Pair Screen	Individual Aluminium/polyester tape
Cable lay up	4 shielded pairs stranded
Overall Screen	Tinned copper wire braid
Sheath	PUR FHF : Ø 8,0 mm approx.

Pair Identification

Pair 1	White/Blue + Blue
Pair 2	White/Orange + Orange
Pair 3	White/Green + Green
Pair 4	White/Brown + Brown



CAT.7 SU/FTP Tactical Ethernet <1000MHz> PUR FHF

Electrical Data @ 20 °C

Loop resistance max. (acc. to VDE 0812)	29 Ω/100m
Insulation resistance min. (20°C)	2 GΩ x km
Characteristic Impedance 100 MHz	100 ± 5 Ω
Transfer Impedance max. (10 MHz)	5 mΩ/m
Mutual Capacitance nom.	45 nF/km
Relative propagation velocity ca.	0,78 c
Screen attenuation ≤ 1000 MHz min.	85 dB
Test voltage	700 V-AC

Frequency (MHz)	Attenuation (dB/100m) Nom.	NEXT (dB) Nom.	ACR (dB/100m) Nom.	EL-FEXT (dB/100m) Nom.	Return Loss (dB) Nom.
1	1,8	100	98,2	95	25
4	3,4	100	96,6	93	28
10	5,4	100	94,6	92	30
16	6,8	100	93,2	91	30
20	7,6	100	92,4	90	30
31.25	9,7	100	90,3	86	30
62.5	14,0	98	84,0	82	30
100	17,8	95	77,2	77	30
155	22,3	92	69,7	73	28
200	25,4	89	63,6	70	27
300	31,4	82	50,6	67	25
400	36,5	79	42,5	64	24
500	40,5	77	36,5	62	23
600	45,2	75	29,8	60	23
800	52,0	72	20,0	56	21
900	57,3	71	13,7	53	20
1000	60,3	70	9,7	50	19

The performance data given are typical measured values

CAT.7 SU/FTP Tactical Ethernet <1000MHz> PUR FHF

Thermal & Mechanical Characteristics

Temperature range	Dynamic (installation)	-10 to +50	°C
Temperature range	Static (installed)	-30 to +80	°C
Min. bending radius	Under tensile load	8	x Ø
Min. bending radius	Without tensile load	4	x Ø
Maximum Traction		120	N
Weight		70	kg/km

Standards

Standards	EN 50288-4-1, ISO/IEC 11801, 2nd edition, EN 50173-1 IEC 61156-5; EN 50288-4-2; IEC 60811-2-1
Flammability Rating	IEC 60332-1, IEC 60754-2

Specification

Part Number	Type
6485	EventSeries® CAT.7 SU/FTP Tactical Ethernet <1000MHz> PUR FHF