

# EC-600-SSTP-HFFR

## CAT 7 Data Cable



65580750  
EC-6.000-SSTP-HFFR

### Application

- This cable is used in data communication networks with 600 MHz bandwidth capacity
- Applicable for IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, 10GBase-T, IEEE 802.5 16 MB, ISDN, TPDDI, ATM Power over Ethernet (PoE) / PoE+

### Cable Construction

- 23 AWG Bare Copper
- Skin/Foam/Skin PE Insulation
- Al-Pet Foil
- Tinned Copper Wire Braiding
- HFFR\* TS EN 50290-2-22 TM52
- Ø 7,10 mm

### Electrical Properties at 20°C

Max. Conductor Resistance	9,5 Ω/km
Max. Resistance Unbalance	< 2 %
Min. Insulation Resistance	5000 MΩ x m
Mutual Capacitance	43 pF/m
Capacitance Unbalance	1600 pF/km
Impedance at 100 MHz	100 ± 5 Ω
Velocity of Propagation	79 %
Delay Skew	25 ns/100 m
Min. TCL	Level 2
Coupling Attenuation	Type 1
Transfer Impedance	Class 1
Test Voltage	1000 V
Operating Voltage	125 V

### Electrical Data at 20°C

Frequency [MHz]	Attenuation [dB/100 m]	NEXT [dB]	PS – NEXT [dB]	ACR [dB/100 m]	PS-ACR [dB/100 m]	ACRF [dB/100 m]	PS-ACRF [dB/100 m]	Return Loss [dB]
1	2,0	104	101	99	96	101	98	24
4	3,4	104	101	97	94	98	95	30
10	4,9	101	98	95	92	98	95	32
100	17,3	100	97	82	79	84	81	34
250	28,2	95	92	63	60	70	67	27
500	42,0	95	92	56	53	61	58	24
600	44,0	88	85	45	42	59	56	22

### Technical Properties

Cable Weight	58 kg/km
Copper Weight	22 kg/km
Min. Bending radius during draw in	60 mm
Min. Bending radius permanently installed	30 mm
Max. Tensile Strength	95 N
Min. Crush Resistance	1000 N/10 cm
Min. Impact	10 impacts
Installation Temperature	0°C ... +50°C
Operating Temperature	-30°C ... +70°C
Packing	500 m

### Standards

- EIA/TIA-568-C.2
- ISO/IEC 11801 2nd ed
- IEC 61156-5 , EN 50173-1
- EN 50288-4-1

Euro Class	Eca
Flame Retardancy	EN 60332-1-2
Corrosive Gases Test	TS EN 60754-2
Smoke Density	EN 61034-2

Order No., 500 m drum  
65580750

\* HFFR (Halogen Free, Flame Retardant) = FRNC (Flame Retardant, None Corrosive) = LSNH (Low Smoke None Halogen) = LSZH (Low Smoke Zero Halogen) = LSOH (Low Smoke Zero Halogen)

**braun teleCom**  
Quality on Line.

braun teleCom GmbH  
Mercurstr. 3 c  
30419 Hanover  
Germany

Tel. +49 511 757086  
Fax +49 511 753169  
info@brauntelecom.de  
www.brauntelecom.com