

F/UTP cat. 5e 200 MHz

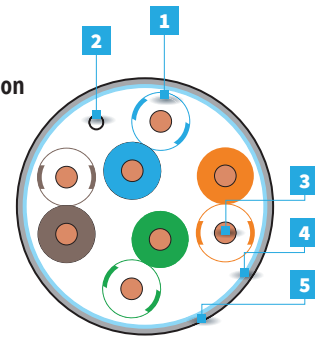
Express 5e

F/UTP cat. 5e 200 MHz



Cable construction

1. Insulation
2. Drain wire
3. Conductor
4. Aluminium foil
5. Jacket



FibrainDATA Express F/UTP Cat.5e 200 MHz		
305 m box	XE100.111	XE100.115
500 m drum	XE100.112	XE100.116
1000 m drum	XE100.113	XE100.117
	JACKET - GREY PVC	JACKET - GREEN LSZH

ELECTRICAL AND CONSTRUCTION PARAMETERS		
Resistance (max) Ohm/100 m(328 ft) @ 20 °C		8.90
Mutual capacitance (max) nF/100 m(328 ft) @ 1 kHz		5.20
Nominal velocity of propagation NVP (% speed of light)		68
Impedence characteristic [Ohm]		(min-max)
values at	772 kHz	87 - 117
	1.0 - 200 MHz	85 - 115
Return loss (RL) dB (min)		
values at	1.0 - 10 MHz	20+5 log(f)
	10 - 20 MHz	25
	20 - 100 MHz	25-7 log(f/20)
Propagation delay (max) [ns @ 10 MHz]		518
Delay skew (max) [ns/100 m]		40
Diameter [mm]		5.6
Weight [kg/km]		36
Minimal bending radius [mm]		25
Installation temperature [°C]		-20/+70
Operating temperature [°C]		-20/+70

Frequency [MHz]	Max. attenuation [dB/100 m]	NEXT [dB/100 m] min	PS-NEXT [dB/100 m] min	ACR-F [dB/100 m] min	PS-ACR-F [dB/100 m] min
0.772	1.8	72.0	69.0	68.2	65.2
1	2.1	70.3	67.3	66.0	53.0
4	4.0	61.3	58.3	54.0	51.0
10	6.2	55.3	52.3	46.0	43.0
16	7.9	52.2	49.2	41.9	38.9
25	10.0	49.3	46.3	38.0	35.0
31.25	11.2	47.9	44.9	36.1	33.1
62.5	16.2	43.4	40.4	30.1	27.1
100	20.9	40.3	37.3	26.0	23.0
155	26.7	37.4	34.4	22.2	19.2
200	30.8	35.8	32.8	20.0	17.0

Applications

- 10BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100BASE-VG-AnyLAN
- 100Mbps TP-PMD (ANSI X3T9.5)
- 100BASE-T (IEEE 802.3)
- 55/155 Mbps ATM
- 1000BASE-T (Gigabit Ethernet)

Norms

- PN-EN 60332-1
- ANSI/TIA/EIA 568-C.2 (Cat. 5e)
- ISO/IEC 11801:2011
- IEC 61156-5
- PN-EN 50173, PN-EN 50288

Construction

- Conductor (wire) - 24 AWG 0.51 mm
- Insulation - polyolefin
- Pair number- 4 twisted pairs
- Shield - aluminium foil/polyester around all pairs
- Grounding - galvanized copper wire , $\Phi 0.4$ mm
- Jacket - grey PVC
- Jacket - green LSZH