U/UTP MULTI cat. 5e 100 MHz

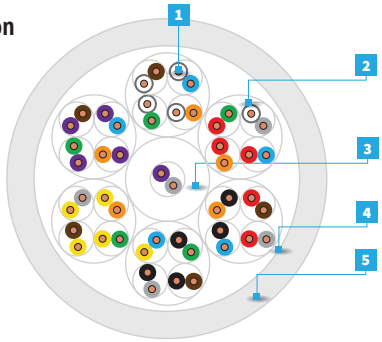
Express 5e

100 MHz

Packing 1000 m

Cable construction

1. Conductor
2. Insulation
3. Cable core
4. Braid
5. Jacket



	FibrainDATA Express 25xU/UTP Cat.5e+ 100 MHz	
1000 m drum	XE125.103	XE125.107
	JACKET - PVC GREY	JACKET - LSZH GREEN

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 - 25 twisted pairs
- 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
Impendence 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]		13.5
Weight [kg/km]		205
Minimal bending radius [mm]		55
Installation temperature [°C]		-20/+70
Operating temperature [°C]		-20/+70

Frequency [MHz]	Max. attenuation [dB/100 m]	NEXT	PS-NEXT	ACR-F	PS-ACR-F	Return loss [dB]
		[dB/100 m] min				
1	2.0	65.3	62.3	61.0	58.0	20.0
4	4.1	56.3	53.3	49.0	46.0	23.0
8	5.8	51.3	48.3	42.0	39.9	24.5
10	6.5	50.3	47.3	41.0	38.0	25.0
16	8.2	47.3	44.3	36.9	33.9	25.0
20	9.3	45.3	42.3	34.9	31.9	25.0
25	10.4	44.3	41.3	33.0	30.0	24.3
31.25	11.7	42.9	39.9	31.0	28.0	23.6
62.5	17.0	38.4	35.4	25.1	22.1	21.5
100	22.0	35.3	32.3	21.0	18.0	20.1