

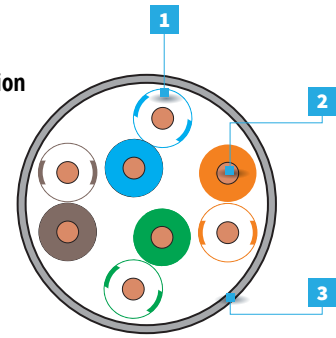
# U/UTP cat. 5e 200 MHz

Express 5e



### Cable construction

1. Insulation
2. Conductor
3. Jacket



FibraINDATA Express U/UTP Cat.5e 200 MHz		
305 m box	XE100.101	XE100.105
500 m drum	XE100.102	XE100.106
1000 m drum	XE100.103	XE100.107
	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		5.60
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]		5.0
Weight [kg/km]		29.5
Minimal bending radius [mm]		20
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
0.722	1.8	72.0	69.0	68.2	65.2
1	2.1	70.3	67.3	66.0	63.0
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

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- ### 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
- IEC 60332-1-2
  - 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
  - Jacket - grey PVC
  - Jacket - green LSZH