



DATA SHEET		2170040
UNITRONIC® LAN Typ 1A IBM Part No. 33G 2772		valid from : Nov. 25. 1998

Application

Installation data cable according to IBM standard with 150 ohms nominal impedance. The cable meets the requirements of international standards IEEE 802.5 resp. ISO/IEC 8802.5 (Token Ring) and are used for the IBM cabling system.

The cable is suitable for fixed installations in dry and wet rooms as well as stationary outdoor application but not for underground burial.

Design

Conductor	bare copper wire 0.64 mm diameter, 22AWG
Insulation	cellular PE, diameter nom. 2.4 mm
Twisting	cores twisted to pairs, pairs individually screened by aluminium mylar tape
Core	2 screened pairs cabled together
Colour code	pair 1 red and green pair 2 orange and black
Overall screen	braid of tinned copper wires, coverage nom. 70 %
Sheath	PVC, black, outer diameter: approx. 8.2 mm x 11.0 mm (oval)

Technical Data

DC resistance (loop)		max. Ω/km	120
Insulation resistance		min. GΩ/km	10
Mutual capacitance at	800 Hz	nom. nF/km	29.5
Impedance at	≥ 3 MHz	Ω	150
Nominal velocity of propagation			0,78 c

Frequency (MHz)	Attenuation (dB/100 m)	Near End Cross-talk (NEXT) (dB)	
4	max. 2.2		
8	max. 3.1	min.	54.9
10	max. 3.48	min.	53.5
16	max. 4.4	min.	50.4
20	max. 4.92	min.	49
25	max. 6.17	min.	47.5
31,25	max. 6.89	min.	46.1
50	max. 9.5		
62,50	max. 9.8	min.	41.5
100	max. 12.3	min.	38.5
200	max. 19		
300	max. 23.3		
600	max. 32.9		

Mechanical and thermal characteristics

Permissible temperature range	°C	- 5 bis + 70
Tensile stress	max. N	245
Bending radius	cable diameter x	10