



<b>DATA SHEET</b>	2170050
<b>Twinax Cable 105 Ohm</b>	valid from : 17.07.2001

**Application**

Twinax Cable 105 Ohm **2Y2YCY 2 x 0.56 mm<sup>2</sup>**, acc. to IBM P/N 7362211 .  
 Computer cable for high data transmission rates for data systems with characteristic impedance between 100 to 120 Ω as well as entire areas of high-frequency engineering and electronic.  
 The cable is suitable for fixed and flexible application in dry and damp rooms as well as stationary outdoor application.

**Design**

Conductor 1: Multi-wire , bare copper 0.56 mm<sup>2</sup> (7 x 0.32 )  
 Conductor 2: Multi-wire , tinned copper 0.56 mm<sup>2</sup> (7 x 0.32 )  
 Insulation Cellular-PE (Polyethylene 2Y ) uncoloured  
 Stranding Cores twisted to pairs ( conductor 1 and conductor 2 twisted into pairs )  
 length of twist approx. 60 mm  
 PE-inner sheath (2Y ) with filler, outer diameter 6.1 mm  
 PE-inner sheath is dividable from insulating  
 Screening braid of tinned copper wires, coverage 95 %  
 Sheath PVC, black, flame retardant, UV resistant  
 Outer diameter approx. 8.3 mm

Sheath marking

LAPP KABEL STUTTGART **Twinax Cable 105 Ohm** 2Y2YCY 2 x 0.56 mm<sup>2</sup> ART. 2170050

**Electrical properties at 20°C**

Conductor resistance		max. Ω/km	36	
Screen resistance		max. Ω/km	10	
Insulation resistance		min. Ωxkm	10	
Capacitance at	1 kHz	max. nF/km	54	
Velocity of propagation		%	66	
Impedance ( core/core ) at	500 kHz	Ω	111 ± 5	
Impedance at	1 MHz	Ω	107 ± 5	
Impedance at	2 MHz	Ω	105 ± 5	
Attenuation at	100 kHz	nom. dB/100m	0,4	
	500 kHz	nom. dB/100m	0,9	
	1 MHz	nom. dB/100m	1,5	
	5 MHz	nom. dB/100m	3,3	
	10 MHz	nom. dB/100m	4,6	
	50 MHz	nom. dB/100m	10,4	
	100 MHz	nom. dB/100m	14,7	
Operating voltage	core/core	peak value	max. V	500
			U <sub>eff</sub> V	1000
Test voltage	core/core		U <sub>eff</sub> V	1000
		core/screen	U <sub>eff</sub> V	3000

**Mechanical and thermal properties**

Tensile stress		max. N	120
Cable weight		ca. kg/km	68
Minimum bending radius		mm	40
Permissible temperature range	moved	°C	- 40 to+ 80
	fixed	°C	-5 to +80
Fire load		kWh/m	0,5
Flame retardant	acc. to VDE 0482 , part 265-2-1 / IEC 60332-1		

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