

### Cable construction

Conductor	Bare copper wire, Ø 23AWG
Insulation	Physical foam PE, Color Code:TIA 568 70°C, EN 50290-2-23
Screen (Pair)	Plastic coated aluminium foil 100% coverage
Screen	Braiding of tinned copper wires 25% coverage
Sheath	PE - RAL 9011 Black, Ø 7,40mm 80°C, EN 50290-2-24

### Application

In data processing and information systems, the cable capable of transmitting analog and digital signal at 10 Gbit/s with a frequency of 500 MHz, suitable for 10 Gigabit Ethernet, is designed with using physical foaming technology in its production for data, audio and video applications. The cable meets standards related with structured cabling systems such as ANSI EIA/TIA 568, ISO/IEC 11801 ve EN 50173 Class EA

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Power over Ethernet (PoE) / PoE+

### Fire Performances

Euro class Fca

### Technical information

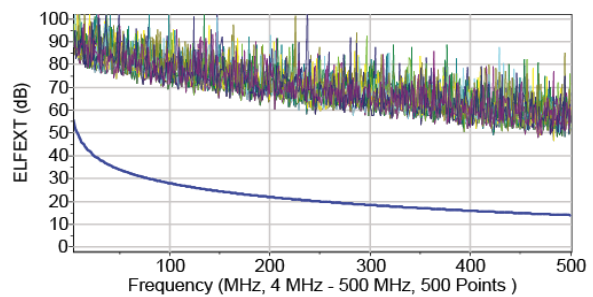
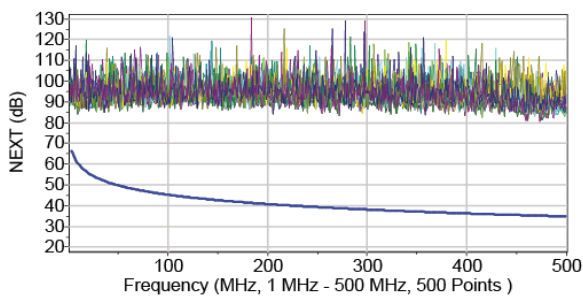
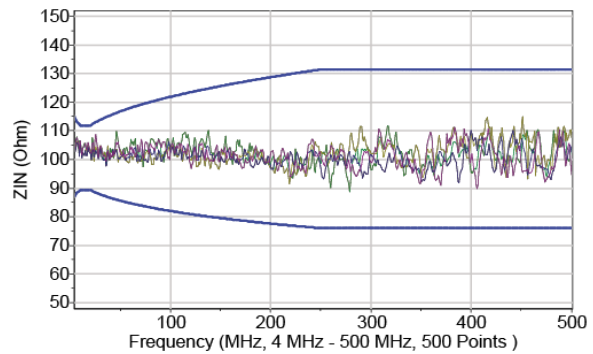
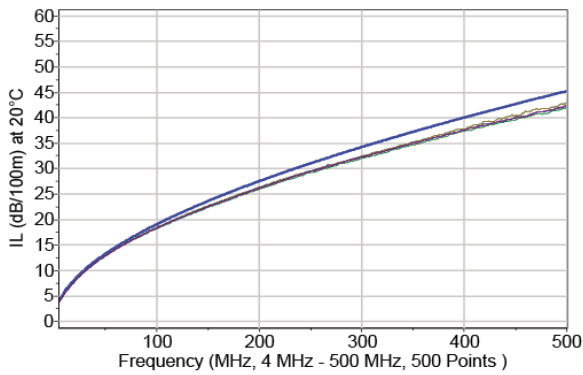
Temperature range			
installation		0 °C ... +50 °C	
in operation		-20 °C ... +60 °C	
Bending radius			
during installation	min.	4 x D	
as installed	min.	8 x D	
Crush resistance	min.	1000 N/10cm	
DC resistance	max.	75 Ω/km	
Resistance unbalance	max.	2%	
Insulation resistance	min.	5000 MΩ x m	
Mutual capacitance	nom.	42 pF/m	
Capacitance unbalance	max.	1600 pF/km	
Characteristic impedance		100 ± 5 Ω @100MHz	
Velocity of propagation		78-80%	
Propagation delay	max.	430 ns/100m	
Delay skew	max.	25 ns/100m	
Testing voltage		1000 V	
Operating voltage	max.	72 V	

### Standards

ISO/IEC 11801 2nd ed., IEC 61156-5  
EN 50173-1, EN 50288-10-1  
ANSI/TIA-568.2-D

EU Declaration of Conformity  
LVD Low Voltage Directive 2014/35/EC  
RoHS EC Directive 2015/863/EU

Frequency [MHz]	Attenuation [dB/100m] max.	NEXT [dB] max.	PS-NEXT [dB] max.	ACR [dB/100m] max.	PS-ACR [dB/100m] max.	ACR-F [dB/100m] max.	PS-ACR-F [dB/100m] max.	RL [dB]
1	2,1	75,3	72,3	73,2	70,2	68	65	20
4	3,8	66,3	63,3	62,5	59,5	56	53	23
10	5,9	60,3	57,3	54,4	51,4	48	45	25
16	7,5	57,2	54,2	49,8	46,8	43,9	40,9	25
31,25	10,5	52,9	49,9	42,4	39,4	38,1	35,1	23,6
62,5	15	48,4	45,4	33,4	30,4	32,1	29,1	21,5
100	19,1	45,3	42,3	26,2	23,2	28	25	20,1
250	31,1	39,3	36,3	8,3	5,3	20	17	17,3
400	40,1	36,3	33,3	-3,8	-6,8	16	13	17,3
500	45,3	34,8	31,8	-10,4	-13,4	14	11	17,3



Part no.	Cable construction	Outer dia. approx. [mm]	Cu content [kg/km]	Cable weight [kg/km]	Sheath - Color	Packing [m]
	SL500 S/F23 PE Cat 6A S/FTP 4x2x23AWG	7,4	24	47	Black (RAL 9011)	500/1000

Specifications are subject to the technical modification.