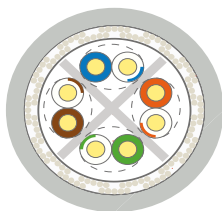


DATASHEET

CABLE SF/UTP Cat 6 4x2xAWG23

Data Cables

CABLE SF/UTP cat 6 4x2xAWG23



Cable construction

Conductor	Bare copper wire, $\varnothing$ 23AWG
Insulation	Poliolefin, Color Code:TIA 568 80°C, EN 50290-2-23
Cross separator	PE
Screen	Plastic coated aluminium foil 100% coverage
Sheath	Brading of tinned copper wires PVC - RAL 7035 Grey, $\varnothing$ 7,80mm TM51 70°C, EN 50290-2-22

Application

In data processing and information systems, the cable capable of transmitting analog and digital signal at 1 Gbit/s with a frequency of 250MHz, suitable for 1 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 E

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Power over Ethernet (PoE) / PoE+

Fire Performances

Vertical flame propagation	EN 60332-1-2
Euro Class	Eca

Technical information

Temperature range		
installation	-20 °C ... +60 °C	
in operation	0 °C ... +50 °C	
Bending radius		
during installation	min.	4 x D
as installed	min.	8 x D
Crush resistance	min.	1000 N/10cm
DC resistance	max.	85 Ω /km
Resistance unbalance	max.	2%
Insulation resistance	min.	5000 M Ω x m
Mutual capacitance	nom.	50 pF/m
Capacitance unbalance	max.	1600 pF/km
Characteristic impedance		100 $\pm$ 5 Ω @100MHz
Velocity of propagation		67-69%
Propagation delay	max.	537 ns/100m
Delay skew	max.	45 ns/100m
Testing voltage		1000 V
Operating voltage	max.	72 V

Standards

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

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

DATASHEET

CABLE SF/UTP Cat 6 4x2xAWG23

Data Cables

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	72	72,9	69,9	68	65	20
4	3,8	66,3	63,3	62,4	59,4	56	53	23
10	6	60,3	57,3	54,3	51,3	48	45	25
16	7,6	57,2	54,2	49,6	46,6	43,9	40,9	25
31,25	10,8	52,9	49,9	42,1	39,1	38,1	35,1	23,6
62,5	15,5	48,4	45,4	32,9	29,9	32,1	29,1	21,5
100	19,9	45,3	42,3	25,4	22,4	28	25	20,1
250	33	39,3	36,3	6,3	3,3	20	17	17,3
300	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-

Part no.	Cable construction	Outer dia. approx. [mm]	Cu content [kg/km]	Cable weight [kg/km]	Sheath - Color	Packing [m]
111094082	CABLE SF/UTP cat 6 4x2xAWG23	7,8	28	63	 Grey (RAL 7035)	100/500

Specifications are subject to the technical modification.