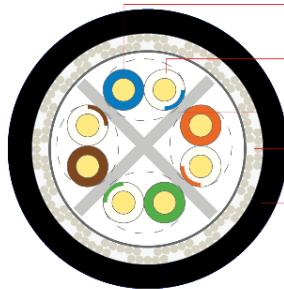




Cable structure



Conductor

Insulation

Cross separator

Screen

Sheath

Conductor: Electrolytic copper wire, \varnothing 23AWG

Insulation: HDPE in compliance with TIA 586 insulation colour coding 80°C, EN 50290-2-23

Screen: Al-Pet tape min. 100% coverage

Tinned braided copper wire, %50 coverage

Sheath: PE - RAL 9011 Black, \varnothing 7.6 mm

80°C, EN 50290-2-24

Applications

This data cable range is designed for analogue and digital signal transmission in audio, video and data applications in data communication systems supporting 250 MHz, 1.0 Gbit/s 1 Gigabit Ethernet. Cables meet the requirements of structural cabling standards including ANSI EIA/TIA 568, ISO/IEC 11801 and 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+

Standards

ISO/IEC 11801 2nd ed., IEC 61156-5

EN 50173-1, EN 50288-6-1

ANSI EIA/TIA 568-C.2

EU declaration of conformity

LVD Low Voltage Directive 2014/35/EU

RoHS Restriction of Hazardous Substances 2011/65/EU

Product Code

2222252822

Specifications

Temperature range	fixed	-20°C ... +60°C
	flexing	0°C ... +50°C
Bending radius	fixed	min. 4 x D
	flexing	min. 8 x D
Tensile strength	max.	100 N
Crushing strength	min.	1000 N/10 cm
Impact strength	min.	10 impacts
Conductor resistance	max.	85 Ω /km
Resistance imbalance	max.	2%
Insulation resistance	min.	5000 M Ω x m
Capacitance	nom.	50 pF/m
Capacity imbalance	max.	1600 pF/km
Rated impedance		100 \pm 5 Ω
Velocity of propagation		@100 MHz 67-69%
Propagation delay	max.	537 ns/100 m
Signal delay	max.	45 ns/100 m
Test voltage		1000 V
Operating voltage	max.	125 V
TCL	min.	"Level 2"
Coupling attenuation		"Type Ib"
Segregation class		"c" EN 50174-2
Transfer Impedance		"Class 2"

SYS400 SF/U23 PE Category 6 SF/UTP 4x2x23AWG

Transmission characteristics @ 20°C

Frequency [MHz]	Attenuation [dB/100 m] typ.max.		NEXT [dB] typ.max.		PS-NEXT [dB] typ.max.		ACR [dB/100 m] typ.max.		PS-ACR [dB/100 m] typ.max.		ACR-F [dB/100 m] typ.max.		PS-ACR-F [dB/100 m] typ.max.		RL [dB] typ.max.	
1	1.9	2.1	82	66	79	64	80	63.9	77	61.9	85	66	82	64	26	20
4	3.8	3.8	76	65.3	73	63.3	72	61.4	69	59.4	77	58	74	55	31	23
10	5.9	6	70	59.3	67	57.3	64	53.3	61	51.3	68	50	64	47	32	25
16	7.4	7.6	65	56.2	62	54.2	58	48.6	55	46.6	63	45.9	60	42.9	34	25
31.25	10.5	10.7	60	51.9	57	49.9	49	41.1	46	39.1	51	40.1	48	37.1	36	23.6
62.50	15.1	15.5	58	47.4	55	45.4	43	31.9	40	29.9	44	34.1	41	31.1	32	21.5
100	19	19.9	52	44.3	49	42.3	33	24.4	30	22.4	35	30	32	27	32	20.1
250	31	33	48	38.3	45	36.3	17	5.3	14	3.3	19	22	16	19	30	17.3
300	36	-	43	-	40	-	13	-	10	-	14	-	11	-	28	-
400	41.6	-	40	-	37	-	8	-	5	-	8	-	5	-	26	-

IEC 61156-5, EN 50288-5-1

