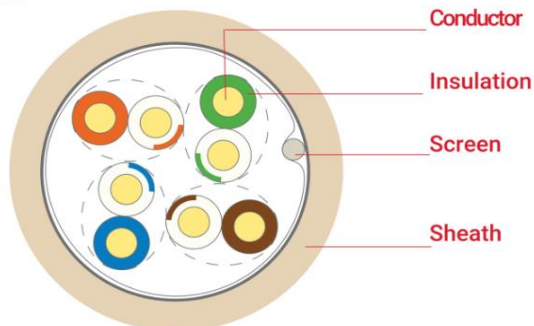




Cable structure



Conductor: Electrolytic copper wire, \varnothing 24AWG
 Insulation: HDPE in compliance with TIA 586 insulation colour coding 80°C, EN 50290-2-23
 Screen: Pet tape min. 100% coverage
 Tinned copper drain wire, \varnothing 26AWG
 Al-Pet tape min. 100% coverage
 Sheath: LSZH/LSOH - RAL 1015 Cream, \varnothing 6.0 mm
 70°C, EN 50290-2-27

Applications

This data cable range is designed for analogue and digital signal transmission in audio, video and data applications in data communication systems supporting 100 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 D.
 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 50288-2-1
 ANSI EIA/TIA 568-C.2

Fire performance

Vertical flame propagation EN 60332-1-2 (LSZH)
 Corrosive gas EN 60754-1/2 (LSZH)
 Smoke density EN 61034-2 (LSZH)

EU declaration of conformity

LVD Low Voltage Directive 2014/35/EU
 RoHS Restriction of Hazardous Substances 2011/65/EU

Product Code

??????2??

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.	90 N
Crushing strength	min.	1000 N/10 cm
Impact strength	min.	10 impacts
Conductor resistance	max.	95 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 @100 MHz
Velocity of propagation		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 II"
Transfer Impedance		"Class 2"
Segregation class		"c" EN 50174-2

SYS200 F/U24 LSZH Category 5e F/UTP 4x2x24AWG

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	71	65.3	68	62.3	69	63.2	66	60.2	82	63.8	79	60.8	23	20
4	3.6	4	62	56.3	59	53.3	58	52.3	55	49.3	70	51.8	67	48.8	33	23
10	5.5	6.3	56	50.3	53	47.3	51	44	48	41	55	43.8	52	40.8	31	25
16	7.7	8	54	47.2	51	44.2	46	39.2	43	36.2	48	39.7	45	36.7	32	25
31.25	11.3	11.4	50	42.9	47	39.9	39	31.5	36	28.5	40	33.9	37	30.9	32	23.6
62.50	16.2	16.5	45	38.4	42	35.4	29	21.8	26	18.8	37	27.9	34	24.9	29	21.5
100	21	21.3	42	35.3	39	32.3	21	14	18	11	30	23.8	27	20.8	27	20.1
200	27.5	-	36	-	33	-	9	-	6	-	22	-	19	-	19	-

IEC 61156-5, EN 50288-3-1

