

SL200 U24

Data cable , Category 5e

U/UTP, Class D, 100MHz

4x2xAWG24



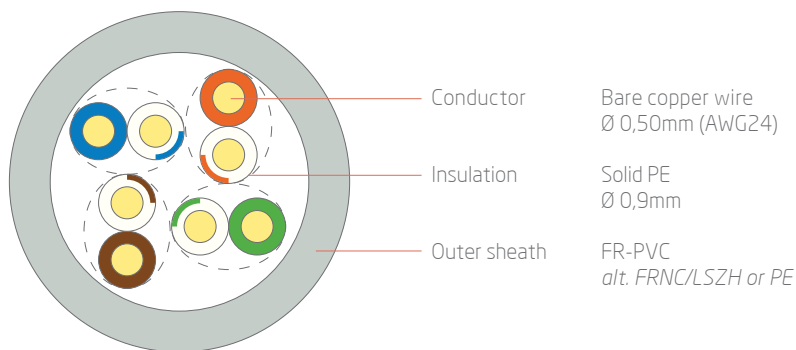
Datacomm®

Types
SL200 U24 PVC
SL200 U24 LSZH
SL200 U24 PE

PRODUCT INFORMATION

Cable constructions

SL200 U24



Features and applications

Recber SL200 U24 is premium grade Class D data cable for building structured premises cabling, to support Ethernet protocol for installation in horizontal and backbone areas. They are characterized by large performance reserves and outstanding quality.

Suitable for applications up to Class D (100MHz) 1GbE acc.to IEEE 802.3 ab, VoIP, Power over Ethernet (PoE)/PoE+, transmission of digital and analogue signals,voice, video and data applications. Services such as Ethernet 10 Base-T, Fast Ethernet 100 Base-T, ATM155, FDDI, token ring 4/16 Mbit/s or ISDN.

Standards

- International standard ISO/IEC 11801 2nd ed., IEC 61156-5
- European standard EN 50173-1, EN 50288-3-1
- U.S. Standards ANSI EIA/TIA 568-C.2

Flame resistancy

- Flame retardancy IEC 60332-1-2 (FR-PVC, FRNC/LSZH)
- Halogen free IEC 60754-1/2 (FRNC/LSZH)
- Smoke density IEC 61034-1/2 (FRNC/LSZH)



Low Voltage Directive 2006/95/EC
EC Directive 2011/65/EU

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Electrical characteristics (HF) at 20 °C

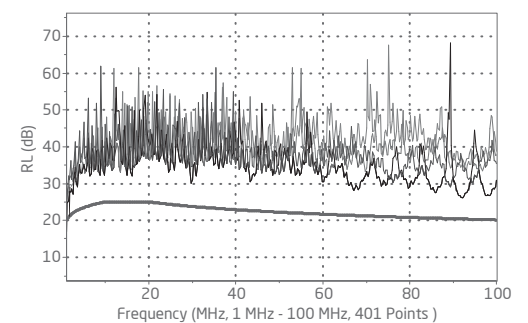
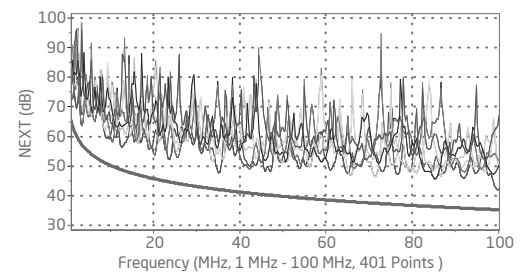
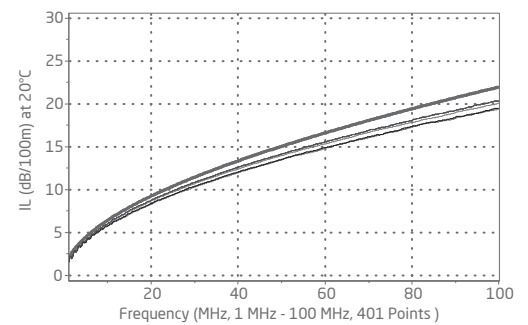
Frequency [MHz]	Attenuation [dB/100m]		NEXT [dB]		PS-NEXT [dB]		ACR [dB/100m]		PS-ACR [dB/100m]		ACR-F [dB/100m]		PS-ACR-F [dB/100m]		RL [dB]	
	typ.	max.	typ.	min.	typ.	min.	typ.	min.	typ.	min.	typ.	min.	typ.	min.	typ.	min.
1	1,9	2,1	71	65,3	68	62,3	69	63,2	66	60,2	82	63,8	79	60,8	23	20
4	3,6	4	62	56,3	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	-

Electrical characteristics (LF) at 20 °C

• DC resistance	max.	95 Ω/km
• Resistance unbalance	max.	2 %
• Insulation resistance	min.	2 G Ω x km
• Mutual capacitance	nom.	48 pF/m
• Capacitance unbalance	max.	1500 pF/km
• Characteristic impedance	@ 100MHz	100 ± 5 Ω
• Coupling attenuation	min.	40 dB (Type 1)
• Velocity of propagation	approx.	67 %
• Propagation delay	nom.	535 ns/100 m
• Skew at 100MHz	nom.	20 ns/100 m
• Testing voltage		1000 V
• Operating voltage	max.	125 V

Mechanical characteristics

• Bending radius during installation	min.	8 x D
• Bending radius as installed	min.	4 x D
• Tensile strength	max.	100 N
• Crush resistance	min.	1000 N/10cm
• Impact strength	min.	10 impacts
• Temperature range installation		0 °C to +50 °C
• Temperature range in operation		-20 °C to +60 °C (FR-PVC / LSZH) -40 °C to +80 °C (PE)



Part no.	Dimensions	Outer dia. approx.[mm]	Cu content [kg/km]	Cable weight [kg/km]	Fire load [MJ/m] [kWh/m]	Sheath - Color	Packing [m]
505001	4 x 2 x 0,50	5,0	15	31	0,36 0,10	FR-PVC ¹⁾ (RAL 7035)	305/500/1000
505004	4 x 2 x 0,50	5,0	15	32	0,33 0,09	FRNC/LSZH ²⁾ (RAL 1021)	500/1000
505007	4 x 2 x 0,50	5,0	15	27	0,55 0,15	PE ³⁾ (RAL 9011)	500/1000

¹⁾ FR-PVC=Flame Retardant Polyvinyl Chloride

²⁾ FRNC/LSZH=Flame Retardant Non Corrosive / Low Smoke Zero Halogen

³⁾ PE=Polyethylene