

TopLine 622

better than category 6

Communication Cable 550 MHz

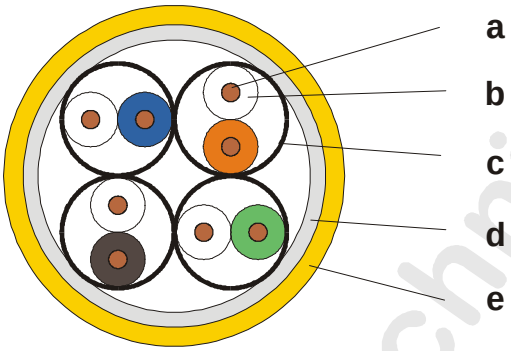
S/STP 100 Ohm

Horizontal Area

Type: KL-02YSCH 2 x 2 x AWG 22/1 PiMF - 100 Ohm

Structure:

Conductor (a): bare copper-wire, AWG 22/1
Insulation (b): cellular-PE, core-Ø: max. 1,6 mm
Pair cabling: 2 cores form a pair
Colour code: wt/bl, wt/or
Individual shield (c): aluminum bonded polyester tape, metal side outwards
Cabling: 2 pairs twisted together
Overall screen (d): tinned copper wire braid
Outer sheath (e): halogenfree compound
Colour: light orange - RAL 2003



Printing:

Klarinet TopLine 622 2 *H*, meter marking

Fields of application:

campus application, backbone application, horizontal application
Category 5
acc. to EN 50173 „1. edition", EN 50173 „2. edition", ISO/IEC 11801 „1. edition", ISO/IEC 11801 „2. edition", Werkstandard bis 300 MHz „1. edition"
Category 6
acc. to EN 50173 „2. edition", ISO/IEC 11801 „2. edition", Werkstandard bis 300 MHz „1. edition" and prEN 50288-5-1 „1. edition", 01.06.1999
EN 50167 „1. edition", EN 50169 „1. edition"
IEEE 802.3 10 BASE T Ethernet,
IEEE 802.3u 100 BASE T Fast Ethernet,
IEEE 802.3ab 1000 BASE T Gigabit Ethernet,
IEEE 802.5 Token Ring,
IEEE 802.12 100VG-AnyLAN,
FDDI on copper, ISDN, B-ISDN, ATM, DQDB, Video

Flame retardance:

acc. to IEC 60332-3 Cat. C

Temperature range:

for fixed installation:	-20 °C to	60 °C
for mobile operation:	0 °C to	50 °C

Absence of halogens: acc. to IEC 60754-2

Smoke density: acc. to IEC 61034

Bending radius:

min. 8 x overall diameter during installation
min. 4 x overall diameter after installation

Other characteristics:

Dimension	Outer-Ø (approx.)	Weight (approx.)	Calorific value (approx.)		Part No.
	(mm)	(kg / km)	(MJ / m)	(kWh / m)	
2 x 2 x AWG 22/1	5,5 x 8,5	60	0,6	0,17	KM00062

Other dimensions available on request

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Electrical characteristics at 20 °C:

DC resistence:	max.	57,1	Ohm / km
Insulation resistance:	min.	5	GOhm x km
Mutual capacitance:	nominal value	40	pF / m
Transfer capacitance (e):	max.	1500	pF / km
Signal velocity:	approx.	0,8	c
Propagation delay:	approx.	420	ns / 100 m
Skew:	approx.	12	ns / 100 m at 100 MHz
Impedance:		100 Ohm ± 15 %	from 1 MHz to 100 MHz
		100 Ohm ± 18 %	from 100 MHz to 200 MHz
Transfer impedance:	nominal value	5 mOhm / m	at 10 MHz acc. to IEC 96-1, A 5.2
Screening attenuation:	min.	60 dB	to 1000 MHz
Coupling attenuation:	min.	90 dB	to 300 MHz
Test voltage U_{eff} :	core / core	1000	V
	core / screen	500	V
Operating voltage U_{eff} :	max.	125	V

Frequency (MHz)	Attenuation (dB / 100 m)		NEXT (dB)		ACR (dB / 100 m)		PS-NEXT (dB)		PS-ACR (dB / 100 m)		EL-FEXT (dB)		PS-EL-FEXT (dB / 100 m)		RL (dB)	
	nom.	Cat. 6* (max.)	nom.	Cat. 6* (min.)	nom.	Cat. 6* (min.)	nom.	Cat. 6* (min.)	nom.	Cat. 6* (min.)	nom.	Cat. 6* (min.)	nom.	Cat. 6* (min.)	nom.	Cat. 6* (min.)
1	1,6	2,1	90	66	88,4	63,9	87	64	85,4	61,9	90	66	84	63	30	20
4	3,1	3,8	90	65,3	86,9	61,5	87	63,3	83,9	59,5	90	55,8	84	52,8	30	23
10	5,1	6	90	59,3	84,9	53,3	87	57,3	81,9	51,3	90	47,8	84	44,8	30	25
16	6,5	7,6	86	56,2	79,5	48,6	83	54,2	76,5	46,6	90	43,7	80	40,7	30	25
20	7,4	8,5	84	54,8	76,6	46,3	81	52,8	73,6	44,3	90	41,8	78	38,8	28	25
31,25	9,3	10,7	81	51,9	71,7	41,2	78	49,9	68,7	39,2	87	37,9	75	34,9	26	23,6
62,5	13,2	15,5	76	47,4	62,8	31,9	73	45,4	59,8	29,9	84	31,9	70	28,9	25	21,5
100	16,9	19,9	72	44,3	55,1	24,4	69	42,3	52,1	22,4	73	27,8	66	24,8	24	20,1
155	21	25,3	70	41,4	49	16,1	67	39,4	46	14,1	76	24	64	21	22	18,8
200	24,1	29,2	67	39,8	42,9	10,6	64	37,8	39,9	8,6	68	21,8	61	18,8	20	18
250	26,8	33	66	38,3	39,2	5,3	63	36,3	36,2	3,3	66	19,8	60	16,8	20	17,3
300	30		64		34		61		31		63		58		18	
450	36		62		26		59		23		55		56			
550	45		60		15		57		12		48		54			

* Category 6 acc. to prEN 50288-5-1 „1. edition", 01.06.1999