

MegaLine 8
Multimedia-Kabel

Communication Cable 1400 MHz

S/FTP 100 Ohm
Horizontal Area

much better than Cat. 7 (Cat.8)

Type: KS-02YSCH

4x2xAWG22/1 PiMF-100 Ohm

Construction:

Conductor: bare copper wire, AWG22/1
 Insulation: cellular-PE, core-Ø: max. 1,60 mm
 Pair cabling: 2 cores form a pair
 Pairscreen: aluminum bonded polyester tape(PiMF)
 Colourcode: pair 1: wh/bu
 pair 2: wh/or
 pair 3: wh/gn
 pair 4: wh/bn
 Cabling: 4 pairs twisted together
 Overall screen: tinned copper wire braid, braid coverage ca. 65%
 Outer sheath: halogen-free compound
 Colour: light ivory, RAL-1015

Printing:

KERPEN MegaLine 8 4P *LSFROH* \$production lot code\$ \$meter marking\$

Application:

- Backbone- and horizontal applications
- category 5 acc. to EN50173, EN50173 2nd. ed., ISO/IEC 11801, ISO/IEC 11801 2nd. ed.
- category 6, category 7 acc. to ISO/IEC 11801 2nd. ed., EN50173 2nd. ed.
- 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
- TIA/EIA Draft 1000BASE-TX
- ATM Cell-Based 1000Mbit/s
- Fibre Channel Draft, ISO/IEC 14165-114 1000Mbit/s
- FDDI on copper, ISDN, B-ISDN, ATM, DQDB, Video, CATV/SATTV

Temperature range:

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

Bending radius:

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

Flame retardance:

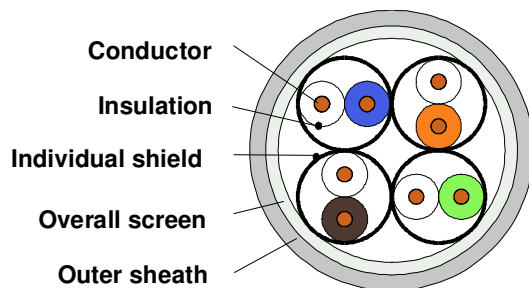
acc. to IEC 60332-3-24

Halogen acid gas emission:

acc. to IEC 60754-2

Smoke density:

acc. to IEC 61034



Other characteristics:

Size	Outer-Ø (approx)	Weight (approx)	Calorific Value (approx.)		Part.No.
	mm		kg/km	MJ/m	
4x2xAWG22/1	8,6	80	0,74	0,21	7KS01138

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Electrical characteristics at 20°C:

DC resistance (ohm/km)	57,1 (max.)
Insulation resistance (Gohm x km)	5 (min.)
Mutual capacitance (pF/m)	42 (nominal value)
Transfer capacitance (e) (pF/km)	1500 (nominal value)
Signal velocity (c)	0,8 (approx.)
Propagation delay (ns/100m)	420 (approx.)
Skew at 100 MHz (ns/100m)	4 (approx.)
Characteristic impedance at 100 MHz (ohm)	100±5
Transfer impedance at 10 MHz (mohm/m)	5 (nominal value)
Screening attenuation up to 1000MHz (dB)	80 (nominal value)
Coupling attenuation up to 1000MHz (dB)	90 (nominal value)
Test voltage Ueff (V)	1000
Operating voltage Ueff (V)	125 (max.)

Frequency Mhz	Attenuation dB/100m		NEXT dB		ACR dB@100m		PS-NEXT dB		PS-ACR dB@100m		EL-FEXT dB		PS-ELFEXT dB@100m		RL dB	
	nom.	cat.7 max.*	nom.	cat.7 min.*	nom.	cat.7 min.*	nom.	cat.7 min.*	nom.	cat.7 min.*	nom.	cat.7 min.*	nom.	cat.7 min.*	nom.	cat.7 min.*
1	1,6	2	105	80,0	103,4	78,0	102	77,0	100,4	75,0	90	80,0	87	77,0		
4	2,6	3,6	105	80,0	102,4	76,4	102	77,0	99,4	73,4	90	80,0	87	77,0	27,0	23,0
10	4,5	5,7	105	80,0	100,5	74,3	102	77,0	97,5	71,3	90	74,0	87	71,0	30,0	25,0
16	6	7,2	105	80,0	99,0	72,8	102	77,0	96,0	69,8	90	69,9	87	66,9	30,0	25,0
20	6,8	8,1	105	80,0	98,2	71,9	102	77,0	95,2	68,9	90	68,0	87	65,0	30,0	25,0
31,25	8,6	10,1	105	80,0	96,4	69,9	102	77,0	93,4	66,9	90	64,1	87	61,1	28,0	23,6
62,5	12,1	14,5	105	75,0	92,9	60,6	102	72,5	89,9	58,0	90	58,1	87	55,1	25,0	21,5
100	15,4	18,5	105	72,0	89,6	53,9	102	69,4	86,6	50,9	85	54,0	82	51,0	24,0	20,1
155	19,2	23,4	105	70,0	85,8	46,2	102	66,6	82,8	43,2	80	50,2	77	47,2	24,0	18,8
200	21,7	26,8	105	68,0	83,3	41,1	102	64,9	80,3	38,1	75	48,0	72	45,0	24,0	18,0
300	27	33,3	103	65,0	77,0	32,0	100	62,3	74,0	29,0	70	44,5	67	41,5	24,0	17,3
600	38	48,9	95	61,0	57,0	11,9	92	57,8	54,0	8,9	60	38,4	57	35,4	21,0	17,3
1000	49		85		36,0		82		33,0		40		37			
1200	56		80		24,0		77		21,0		35		32			
1400	61		75		14,0		72		11,0		30		27			

*EN 50288-4-1, August 2004

