

MegaLine® F10-115 S/F B2_{ca}

S₅ P₄ A₄ C₄ E₅



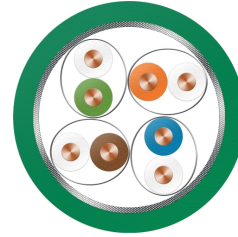
Type:
KS-02YSCH 4x2xAWG 23/1 PIMF



Category: 7_A

Construction:

- 1 Conductor: bare copper wire, AWG 23/1
- 2 Insulation: cellular-PE, core-Ø: nominal value 1.4 mm
- Twisting element: pair
- 3 Individual screen: aluminium-bonded polyester tape
- Twisting: 4 pairs
- 4 Overall screen: tinned copper wire braid
- 5 Outer sheath: halogen free, flame retardant compound (for B2_{ca})



colour code: wh/bl, wh/or, wh/gn, wh/br
Colour outer sheath: yellowgreen, RAL-6018

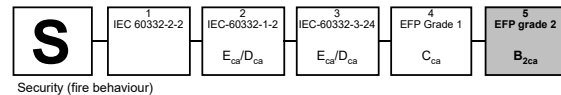
printing outer sheath:
KERPEN MegaLine F10-115 S/F 4P H SPACE Code 54445 B2_{ca} s1a d1 a1 DoP: CDESK0000009 Made in Germany \$Production lot code\$ \$Meter marking\$

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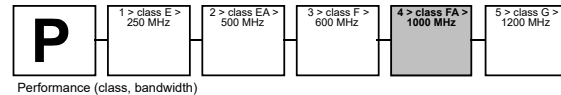
fire behaviour:

- flame resistance: acc. to IEC 60332-3-24
- halogen free: acc. to IEC 60754-1/2
- smoke density: acc. to IEC 61034-1/2
- Acidity: according EN 60754-2
- fire load (MJ/m): 0.60 (approx.)
- Class: B2_{ca} s1a d1 a1
- according EN 50575 / EN 50399



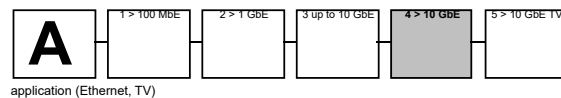
performance:

- better than Category 7A acc. to EN 50288 and IEC 61156 excellent NEXT, excellent screen properties (pair- and overall screen), low Skew
- bandwidth (typical): 1200 MHz



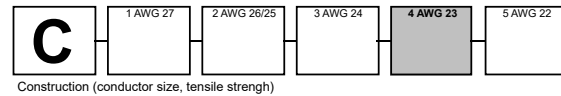
applications:

- Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition). Ideal for all applications of class D up to FA Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3 an, 25G acc. to TR-11801-9905 (-9909 draft) as Channel-Link upto 30m (40,50,67,100m). Cable sharing, VoIP, PoE/PoE+/4PPoE.



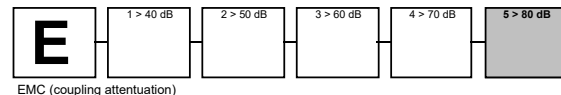
mechanical characteristics:

- bending radius: during laying: 8 x outer diameter (min.)
- acc. to Installation: 4 x outer diameter (min.)
- tensile loading (N): 110 (max.)
- crush resistance (N/100mm): 1000
- impact strength (quantity of impacts): 10



electromagnetic behaviour:

- transfer impedance at 10 MHz (mOhm/m): 5 (nominal value)
- screen attenuation up to 1000 MHz (dB): 70 (nominal value)
- coupling attenuation up to 1000 MHz (dB): 85 (nominal value)
- Segregation class according EN 50174-2:: d

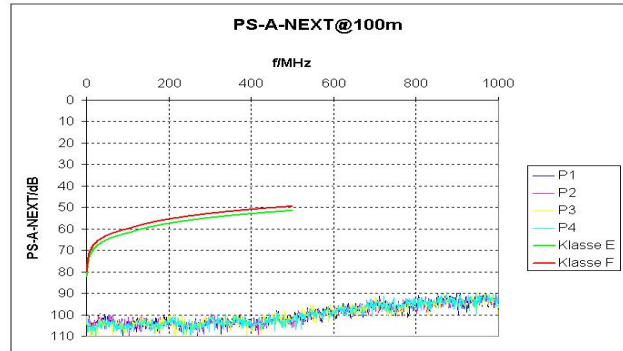


Type:
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Electrical characteristics at 20°C:

conductor resistance (Ohm/km):	75 (max.)
insulation resistance (GOhm x km):	5 (min.)
mutual capacitance (pF/m):	42 (approx.)
capacitance unbalance (e) (pF/km):	1100 (approx.)
velocity of propagation (c):	0.80 (approx.)
phase delay (ns/100m):	420 (approx.)
delay skew at 100 MHz (ns/100m):	5 (approx.)
characteristic impedance at 100 MHz (Ohm):	100±5
test voltage Ueff (V):	1000
operating voltage (V):	125 (max.)



frequenz MHz	attenuation dB/100m		NEXT dB		PS-NEXT dB		ACR dB@100m		PS-ACR dB@100m		EL-FEXT dB@100m		PS-ELFEXT dB@100m		RL dB	
	typ.	Cat.7 _A max.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*	typ.	Cat.7 _A min.*
1	1,9	2,1	105	78	102	75	104	75,9	101	72,9	98	78	95	75	26,6	20
10	4,8	5,8	105	78	102	75	101	72,2	98	69,2	103	75,3	100	72,3	35,3	25
100	16,3	18,5	105	75,4	102	72,4	89	56,9	86	53,9	89	55,3	86	52,3	39,6	20,1
200	24,3	26,5	105	70,9	102	67,9	81	44,4	78	41,4	82	49,3	79	46,3	36	18
250	27,5	29,7	105	69,4	102	66,4	78	39,7	75	36,7	79	47,3	76	44,3	34	17,3
500	37,9	42,8	100	64,9	97	61,9	62	22,2	59	19,2	67	41,3	64	38,3	29	17,3
600	42,4	47,1	95	63,7	92	60,7	53	16,6	50	13,6	60	39,7	57	36,7	25,4	17,3
700	47,2	51,1	95	62,7	92	59,7	48	11,6	45	8,6	57	38,4	54	35,4	24,6	16,6
800	50,3	54,9	93	61,9	90	58,9	43	6,9	40	3,9	53	37,2	50	34,2	23,5	16,1
900	54,6	58,5	90	61,1	87	58,1	35	2,6	32	-4	49	36,2	46	33,2	22,6	15,5
1000	58	61,9	88	60,4	85	57,4	30	-1,5	27	-4,5	44	35,3	41	32,3	21,5	15,1
1150	61,9	-	86	-	83	-	25	-	22	-	39	-	36	-	20,6	-
1200	64	-	85	-	82	-	21	-	18	-	35	-	32	-	19	-

* EN 50288-9-1(2013)/IEC 61156-5(2009)

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Chemical characteristics:

Free of hazardous substances acc. to RoHS 2011/65/EU

Thermal characteristics:

Temperature range for fixed installation: -20°C up to +60°C
 Temperature range for mobile operation: 0°C up to +50°C

certificate and approbation:

quality seal with production control:
 Link Performance:
 test certificate:
 conform to LVD (2014/35/EU)
 Conform to CPR (EU/305/2011)

GHMT PVP
 KERPEN MegaLine® systems and further commercial plug-in connector
 acc. to DIN 55350-18-4.2.1 bzw. EN 10204



Article Number:	Presentation (m)	Size:	Outer diameter (mm):	weight (kg/km):	copper sales factor (kg/km):	colour of outer sheath:
LKD7KS7B0080000	general	4P	7.3 (approx.)	62 (approx.)	37	yellowgreen, RAL-6018
LKD7KS7B0080100	1000					