

MegaLine® E5-70 F/F B2_{ca}

S₅ P₂ A₃ C₄ E₃



Type:
KS-02YS(ST)H 4x2xAWG 23/1 PIMF

Category: 6_A



Construction:

1 Conductor: bare copper wire, AWG 23/1

2 Insulation: cellular-PE, core-Ø: nominal value 1.4 mm

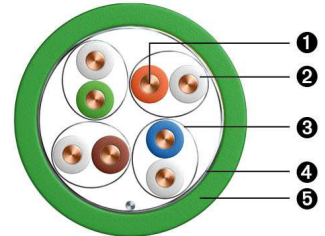
Twisting element: pair

3 Individual screen: aluminium-bonded polyester tape

Twisting: 4 pairs

4 Overall screen: aluminium-bonded polyester tape, metal side inside, with underlayered tinned copper drain wire

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:
LEONI MegaLine E5-70 F/F 4P H SPACE Code 52343 B2_{ca} s1a d1 a1 Made in Germany \$Production lot code\$ \$Meter marking\$

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fire behaviour:

flame resistance: acc. to IEC 60332-3-24

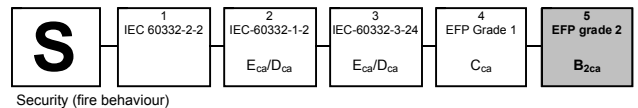
halogen free: acc. to IEC 60754-1/2

smoke density: acc. to IEC 61034-1/2

Acidity: according EN 60754-2

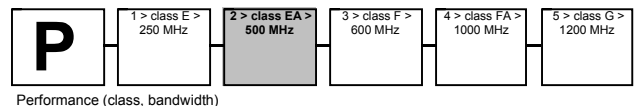
fire load (MJ/m): 0.60 (approx.)

Class: B2_{ca} s1a d1 a1 according EN 50575 / EN 50399



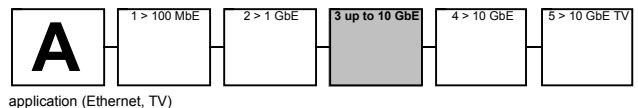
performance:

better than Category 6A acc. to EN 50288 and IEC 61156 excellent NEXT, well screen properties (pair- and overall screen), low Skew bandwidth (typical): 700 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 EA up to 10 GbE acc. to IEEE 802.3 an, Cable sharing, VoIP, PoE/PoE+/4PPoE



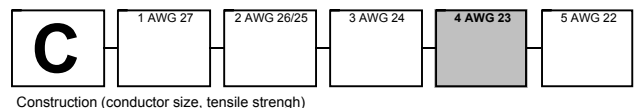
mechanical characteristics:

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



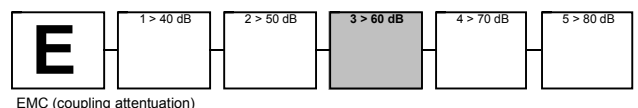
electromagnetic behaviour:

transfer impedance at 10 MHz (mOhm/m): 50 (nominal value)

screen attenuation up to 1000 MHz (dB): 60 (nominal value)

coupling attenuation up to 1000 MHz (dB): 70 (nominal value)

Segregation class according EN 50174-2: c



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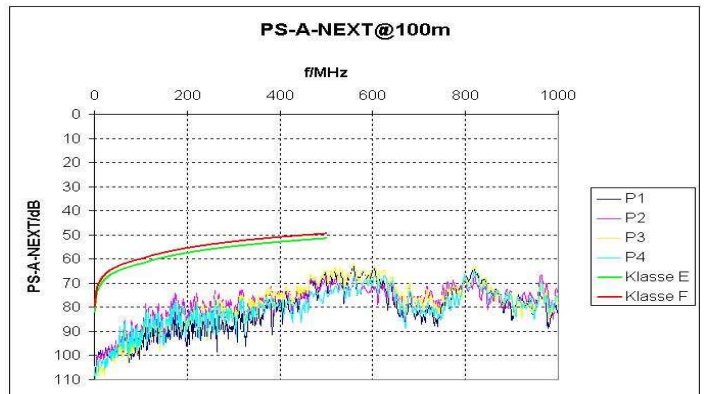


Type:
KS-02YS(ST)H 4x2xAWG 23/1 PIMF



Electrical characteristics at 20°C:

conductor resistance (Ohm/km):	82 (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):	417 (approx.)
delay skew at 100 MHz (ns/100m):	7 (approx.)
characteristic impedance at 100 MHz (Ohm):	100±5
test voltage U _{eff} (V):	1000
operating voltage (V):	125 (max.)



frequenz MHz	attenuation dB/100m		NEXT dB		PS-NEXT dB		ACR dB@100m		PS-ACR dB@100m		ACR-F dB@100m		PSACR-F dB@100m		RL dB	
	typ.	Cat. 6 _A max.*	typ.	Cat. 6 _A min.*	typ.	Cat. 6 _A min.*	typ.	Cat. 6 _A min.*	typ.	Cat. 6 _A min.*	typ.	Cat. 6 _A min.*	typ.	Cat. 6 _A min.*	typ.	Cat. 6 _A min.*
1	1,9	2,1	95	75,3	92	72,3	93	73,2	90	70,2	91	68	88	65	25,1	-
10	5,2	5,9	90	60,3	87	57,3	85	54,4	82	51,4	96	48	93	45	35,2	25
100	17,7	19,1	75	45,3	72	42,3	57	26,2	54	23,2	90	28	87	25	37,2	20,1
200	26,4	27,6	68	40,8	65	37,8	42	13,2	39	10,2	78	22	75	19	31,1	18
250	29,9	31,1	66	39,3	63	36,3	36	8,3	33	5,3	75	20	72	17	29,5	17,3
300	31,9	34,3	65	38,1	62	35,1	33	3,9	30	,9	72	18,5	69	15,5	28,3	17,3
450	38,9	42,7	63	35,5	60	32,5	24	-7,2	21	-10,2	69	14,9	66	11,9	26,7	17,3
500	41,2	45,3	61	34,8	58	31,8	20	-10,4	17	-13,4	66	14	63	11	26,3	17,3
600	46,2	-	57	-	54	-	11	-	8	-	60	-	57	-	25,8	-
700	51,4	-	54	-	51	-	3	-	0	-	56	-	53	-	-	-

* EN 50288-10-1(2013)/EN 50288-5-1(2004)/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
 LEONI MegaLine® systems and further commercial plug-in connector
 acc. to DIN 55350-18-4.2.1 bzw. EN 10204



Article Number:	Size:	Outer diameter (mm):	weight (kg/km):	copper sales factor (kg/km):	colour of outer sheath:
LKD7KS6B0220000	4P	7,1 (approx.)	52 (approx.)	23,5	yellowgreen, RAL-6018