

MegaLine® E5-70 S/F

S₃ P₂ A₃ C₄ E₄

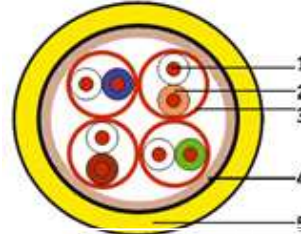
Type:
KS-02YSCH 4x2xAWG 23/1 PIMF

Category: 6_A



Construction:

- 1 Conductor: bare copper wire, AWG 23/1
- 2 Insulation: cellular-PE, core-Ø: max. 1,40 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



Colour code: wh/bu, wh/or, wh/gn, wh/bn
Colour outer sheath: yellow, RAL-1021

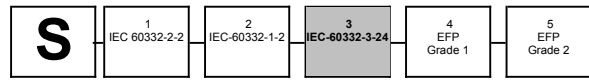
Printing outer sheath:
LEONI MegaLine E5-70 S/F 4P H SPACE Code 32344 \$VDE approval mark\$ \$Production lot code\$ \$Meter marking\$

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Fire behaviour:

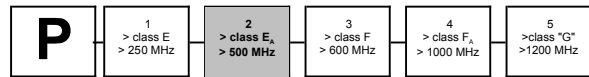
Flame retardance: acc. to IEC 60332-3-24
Halogen acid gas emission: acc. to IEC 60754-1/2
Smoke density: acc. to IEC 61034-1/2
Calorific value (MJ/m): 0,6 (approx.)



Security (Fire behaviour)

Performance:

better than category 6_A acc. EN 50288 and IEC 61156 very good NEXT, very good screening characteristics (individual and overall screen), low SKEW
Bandwidth 700 MHz



Performance (Cabling class, band width)

Applications:

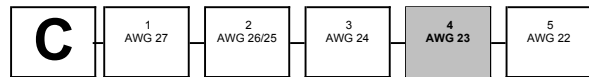
Installation cable for generic cabling systems acc. ISO/IEC 11801 and EN 50173 (2nd edition). Ideal for all applications of classes D up to E_A up to 10 GbE acc. IEEE 802.3 an, Cable sharing, VoIP, PoE/PoE+



Application (Ethernet, TV)

Mechanical characteristics:

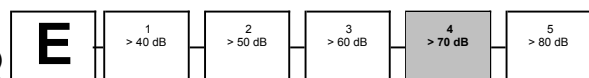
Bending radius:
during installation: 8 x overall diameter (min.)
after installation: 4 x overall diameter (min.)
Tensile strength: 110 (max.)
Crush (N/100mm): 1000
Impact (number of shocks): 10



Construction (Conductor size, Tensile strength)

Electromagnetic behaviour:

transfer impedance at 10 MHz (mOhm/m): 5 (nominal value)
Screening attenuation up to 1000 MHz (dB): 60 (nominal value)
coupling attenuation up to 1000MHz (dB): 80 (nominal value)



EMC (Coupling attenuation)

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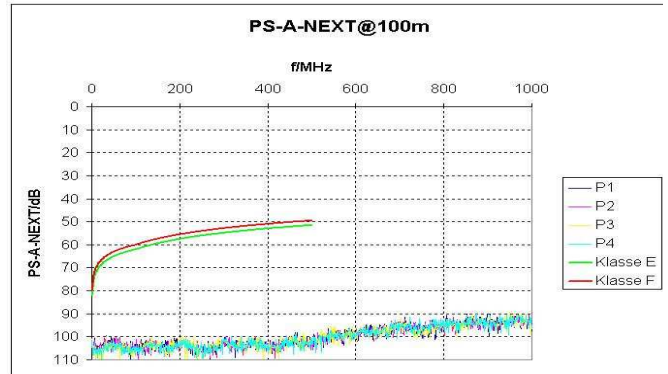


Type:
KS-02YSCH 4x2xAWG 23/1 PIMF



Electrical characteristics at 20°C:

DC resistance (Ohm/km): 82 (max.)
 Insulation resistance (Gohm x km): 5 (min.)
 Mutual capacitance (pF/m): 42 (approx.)
 Capacitance unbalance (e) (pF/km): 1500 (approx.)
 Signal velocity (c): 0,8 (approx.)
 Propagation delay (ns/100m): 420 (approx.)
 Skew at 100 MHz (ns/100m): 7 (approx.)
 Characteristic impedance at 100 MHz (Ohm): 100±5
 Test voltage Ueff (V): 1000
 Operating voltage Ueff (V): 125 (max.)



Frequency 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	26	20
10	5,2	5,9	90	60,3	87	57,3	85	54,4	82	51,4	96	48	93	45	35,9	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	33,1	18
250	29,9	31,1	66	39,3	63	36,3	36	8,3	33	5,3	75	20	72	17	30,5	17,3
300	31,9	34,3	65	38,1	62	35,1	33	3,9	30	,9	72	18,5	69	15,5	29,9	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	28,9	17,3
500	41,2	45,3	61	34,8	58	31,8	20	-10,4	17	-13,4	66	14	63	11	28,3	17,3
600	46,2	-	57	-	54	-	11	-	8	-	60	-	57	-	27,2	-
700	51,4	-	54	-	51	-	3	-	0	-	56	-	53	-	26,2	-

* EN 50288-10-1 (draft)/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
 Temperature range for mobile operation

-20°C up to +60°C
 0°C up to +50°C

Certificates and Approvals

Quality mark with production control
 Link performance
 Inspection certificate:
 In agreement to LVD (2006/95/EC)

\$VDE Logo\$
 LEONI MegaLine® systems and further commercial cabling systems
 acc. to DIN 55350-18-4.2.1 respectively EN 10204
 \$CE Logo\$

Article Number:	Size:	Overall diameter (mm):	Weight (kg/km):	Copper content (kg/km):	Colour sheath:
LKD7KS600240000	4P	7,4 (approx.)	55 (approx.)	30	yellow, RAL-1021

Package: Drum 1000m