

MegaLine® E5-70 S/F

S₃ P₂ A₃ C₄ E₄

LEONI

Type:

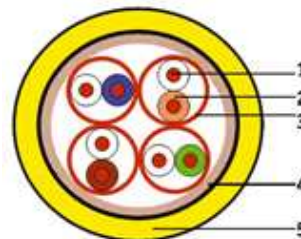
KS-02YSCH 4x2xAWG 23/1 PIMF

Category:

 6_A


Construction:

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



colour code: wh/bl, wh/or, wh/gn, wh/br
 Colour outer sheath: yellow, RAL-1021

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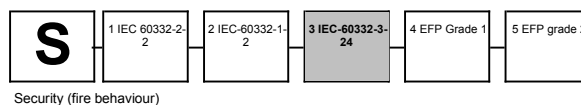
printing outer sheath:

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



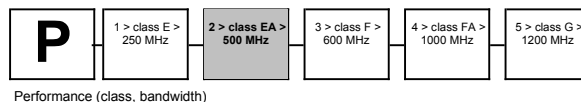
fire behaviour:

flame resistance:	acc. to IEC 60332-3-24
halogen free:	acc. to IEC 60754-1/2
smoke resistance:	acc. to IEC 61034-1/2
fire load (MJ/m):	0.60 (approx.)



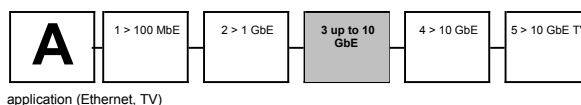
capability characteristics:

better than Category 6A acc. to EN 50288 and IEC 61156 excellent NEXT, excellent screen properties (pair- and overall screen), low Skew
 bandwidth 700 MHz



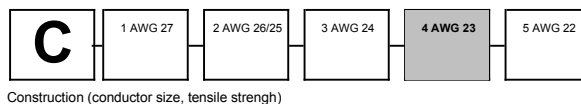
applications:

Installation cable for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (2nd 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



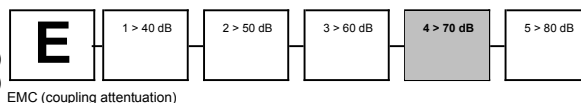
mechanical characteristics:

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):	60 (nominal value)
coupling attenuation up to 1000 MHz (dB):	80 (nominal value)



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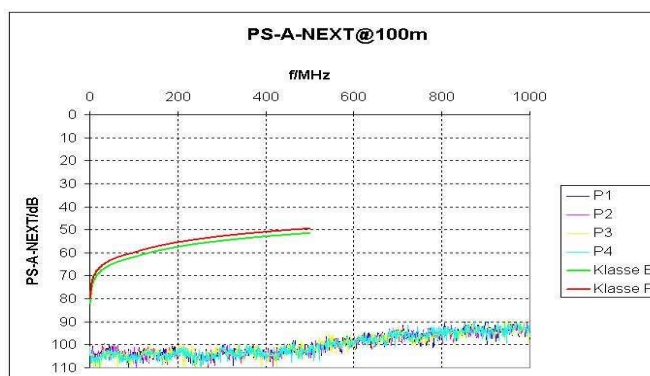
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Type:

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.)
capacitively coupled (e) (pF/km):	1500 (approx.)
signal tempo (c):	0.80 (approx.)
signal transit time (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 (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	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**certificate and approbation:**

quality seal with production control:

Link Performance:

test certificate:

conform to LVD (2006/95/EC):

\$VDE_Logo\$, GHMT PVP

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

\$CE Logo\$

Article Number:	Size:	Outer diameter (mm):	weight (kg/km):	copper index (kg/km):	colour of outer sheath:
7KS60024	4P	7.4 (approx.)	55 (approx.)	30	yellow, RAL-1021

packaging:

drum 1000m