

MegaLine® F6-70 S/F HV flex

S₃ P₃ I₄ C₃ E₅

LEONI

Type:

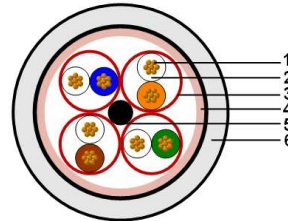
KS-02YSCHV 4x2xAWG 24/7 PIMF

Category: 7



Construction:

- 1 Conductor: bare copper wire, AWG24/7
- 2 Insulation: cellular-PE, core-Ø: nominal value 1.5 mm
- Twisting element: pair
- 3 Individual screen: aluminium-bonded polyester tape
- Twisting: 4 pairs
- 4 Overall screen: tinned copper wire braid, braid coverage ca. 65%
- 5 strain relief element: Aramid/Dielectric: 0.55/1.45 mm
- 6 Outer sheath: halogenfree, flameretardant compound (SHF1 acc. to IEC 60092-359), thickness outer sheath 0.9mm



colour code: wh/bl, wh/or, wh/gn, wh/br
 Colour outer sheath: grey, RAL-7035

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printing outer sheath:

LEONI MegaLine Sea 724 flex 4P AWG 24/7 Heavy Duty *H*125 V IEC 60332-3-22 \$Year\$ \$Production lot code\$ \$Meter marking\$



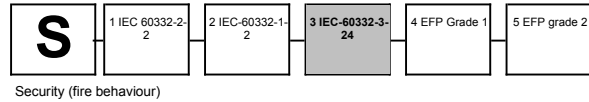
fire behaviour:

flame resistance: acc. to IEC 60332-3-22 / EN 50266-2-2

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

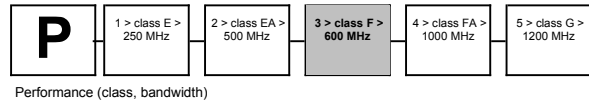
smoke resistance: acc. to IEC 61034-1/2

fire load (MJ/m): 0.80 (approx.)



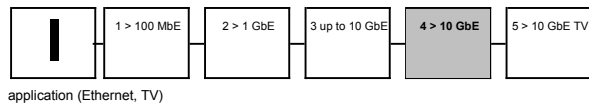
capability characteristics:

better than Category 7 acc. to EN 50288 and IEC 61156 excellent NEXT, low attenuation, exzellente screen properties (pair- and overall screen), low Skew bandwidth 700 MHz



applications:

Connecting cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (2nd edition) and also acc. to ISO/IEC 24702 and EN 50173-3. Ideal for all applications of class D up to F Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3 an, Cable sharing, VoIP, PoE. For application in rough environment because of extrem strong H-sheath.



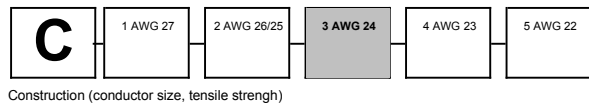
mechanical characteristics:

bending radius: in operation: 5 x outer diameter (min.)

tensile loading (N): 400 (max.)

crush resistance (N/100mm): 1000

impact strength (quantity of impacts): 10

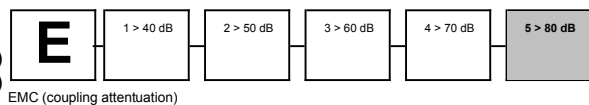


electromagnetic behaviour:

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): 90 (nominal value)



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Electrical characteristics at 20°C:

DC resistance (Ohm/km):	84 (max.)
insulation resistance (GOhm x km):	5 (min.)
mutual capacitance (pF/m):	42.5 (approx.)
signal tempo (c):	0.78 (approx.)
signal transit time (ns/100m):	430 (approx.)
Skew at 100 MHz (ns/100m):	4 (approx.)
Characteristic impedance at 100 MHz (Ohm):	100±5
test voltage U _{eff} (V):	1000
operating voltage (V):	125 (max.)

frequenz MHz	attenuation dB/10m		NEXT dB		PS-NEXT dB		ACR dB@10m		PS-ACR dB@10m		EL-FEXT dB@10m		PS-ELFEXT dB@10m		RL dB	
	typ.	Cat.7 max.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*	typ.	Cat.7 min.*
1	,23	,29	90	80	87	77	90	80	87	77	90	80	87	77	23,3	-
4	,4	,55	90	80	87	77	90	79	87	77	90	80	87	77	25	23
10	,63	,85	90	80	87	77	89	79	86	77	90	74	87	71	30	25
16	,79	1,08	90	80	87	77	89	79	86	77	90	70	87	67	30	25
20	,91	1,21	90	80	87	77	89	79	86	77	85	68	82	65	30	25
100	2,07	2,78	81	72,4	78	69	79	70	76	69	64	54	61	51	24	20,1
200	3,07	4,01	76	67,9	73	65	73	64	70	65	57	48	54	45	24	18
250	3,43	4,53	74	66,5	71	63	71	62	68	63	53	46	50	43	24	17,3
500	4,77	6,62	70	61,9	67	59	65	55	62	59	45	40	42	37	21	17,3
600	5,23	7,33	68	60,8	65	58	63	53	60	58	42	38	39	35	21	17,3
700	5,65	-	65	-	62	-	59	-	56	-	39	-	36	-	19	-

* EN 50288-4-2(2004)/IEC 61156-6(2002)

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Chemical characteristics:

Free of hazardous substances acc. to RoHS 2002/95/EG
 Oil resistance IRM 902 acc. to IEC 60811-2-, ICEA S-73-532 (4h, 60°C)
 UV-resistance acc. to UL 1581 and ISO 4892

Thermal characteristics:

Temperature range for fixed installation -25°C up to +70°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 (2006/95/EC):

GL (Germanischer Lloyd), DNV (Det Norske Veritas), ABS (American Bureau of Shipping), BV (Bureau Veritas)
 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:
7KS01699	4P	9.0 (approx.)	74 (approx.)	35	grey, RAL-7035

packaging:

drum 1000m