

MegaLine® F6-90 S/F H Marine

S₃ P₃ I₄ C₄ E₅

Type:

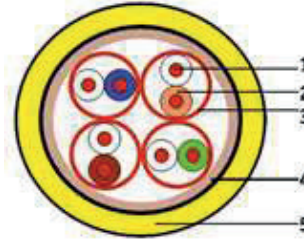
KS-02YSCHV 4x2xAWG 23/1 PIMF



Category: 7

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: 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: yellow, RAL-1021

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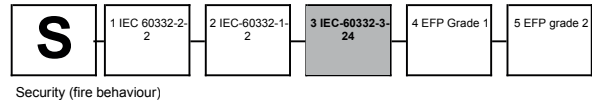
printing outer sheath:

LEONI MegaLine Sea F6-90 S/F 4P H SPICE Code 33445 \$VDE-mark\$ \$Production lot code\$ \$Meter Marking\$



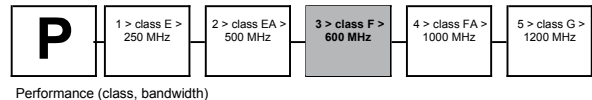
fire behaviour:

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): 0.68 (approx.)



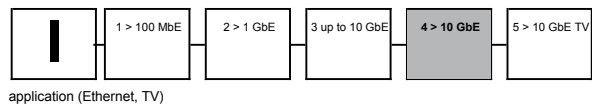
capability characteristics:

better than Category 7 acc. to EN 50288 and IEC 61156 excellent NEXT, exzellente screen properties (pair- and overall screen), low Skew
 bandwidth 1000 MHz



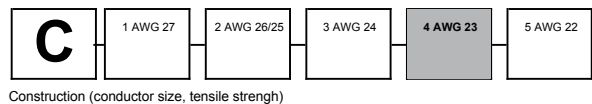
applications:

Installation cable 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 particular strong H-sheath.



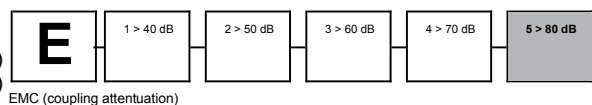
mechanical characteristics:

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)



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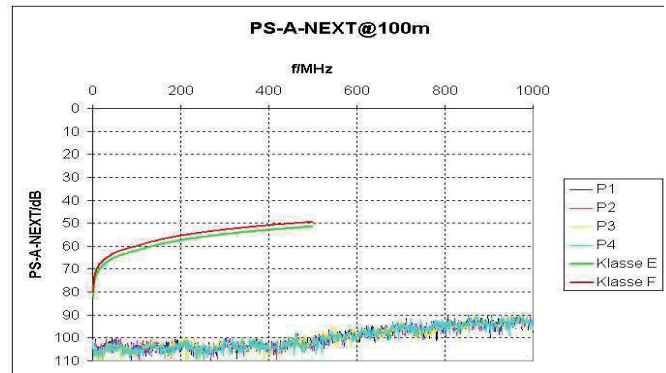


Type:
KS-02YSCHV 4x2xAWG 23/1 PIMF



Electrical characteristics at 20°C:

DC resistance (Ohm/km):	75 (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):	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 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	1,9	2	102	80	99	77	101	78	98	75	109	80	106	77	25,4	23
10	4,8	5,7	102	80	99	77	98	74	95	71	108	74	105	71	31,1	25
100	16,4	18,5	102	72	99	69	86	54	83	51	93	54	90	51	33,2	20,1
200	24,5	26,8	102	68	99	65	78	41	75	38	85	48	82	45	33,2	18
250	27,8	30,2	102	66	99	63	75	36	72	33	82	46	79	43	33,4	17,3
450	36,1	41,6	97	63	94	60	61	21	58	18	72	41	69	38	31,4	17,3
500	38,2	44,1	97	62	94	59	59	18	56	15	68	40	65	37	30,5	17,3
600	42,9	48,9	92	61	89	58	49	12	46	9	62	38	59	35	27,6	17,3
700	47,7	-	92	-	89	-	44	-	41	-	59	-	56	-	26,2	-
800	50,8	-	90	-	87	-	39	-	36	-	56	-	53	-	23,9	-
900	55,1	-	85	-	82	-	30	-	27	-	52	-	49	-	21,7	-
1000	58	-	80	-	77	-	22	-	19	-	42	-	39	-	18	-

* EN 50288-4-1(2004)/IEC 61156-5(2002)

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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 (2006/95/EC):

§VDE logo\$
 LEONI MegaLine® systems and further commercial plug-inn 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:
7KS70274	4P	7.8 (approx.)	63 (approx.)	35	yellow, RAL-1021

packaging: drum 1000m