

MegaLine® F6-70 S/F HV flex

S₃P₃I₄C₃E₅

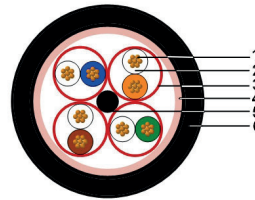
Type:
KS-02YSCHV 4x2xAWG 24/7 PIMF

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 60092-360), thickness outer sheath 0.9mm



colour code: wh/bl, wh/or, wh/gn, wh/br
Colour outer sheath: black

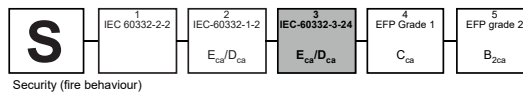
printing outer sheath:
KERPEN MegaLine Sea 724 flex 4P AWG 24/7 Heavy Duty *H*125 V IEC 60332-3-22 \$Year\$ \$Production lot code\$ \$Meter marking\$

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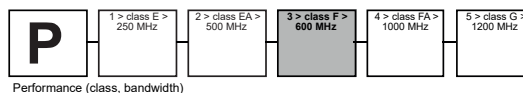
fire behaviour:

- flame resistance: acc. to IEC 60332-3-24/22
- halogen free: acc. to IEC 60754-1/2
- smoke density: acc. to IEC 61034-1/2
- fire load (MJ/m): 0.80 (approx.)



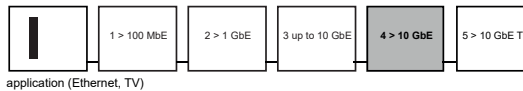
performance:

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 (typical): 700 MHz



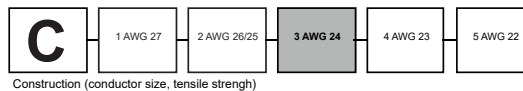
applications:

Installation cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd 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/PoE+. For outdoor and application in rough environment because of extrem strong H-sheath.



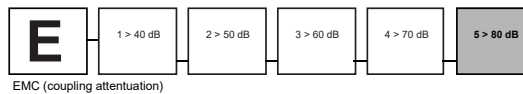
mechanical characteristics:

- bending radius: 400 (max.)
- in operation: 5 x outer diameter (min.)
- tensile loading (N): 1000
- crush resistance (N/100mm): 10
- 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)
- Segregation class according EN 50174-2: d



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printing error, falsity and technical alterations excepted.

The origin document is german. In case of error has the german translation priority.

MegaLine® F6-70 S/F HV flex

S₃ P₃ I₄ C₃ E₅

Type:
KS-02YSCHV 4x2xAWG 24/7 PIMF



Electrical characteristics at 20°C:

conductor resistance (Ohm/km):	84 (max.)
insulation resistance (GOhm x km):	5 (min.)
mutual capacitance (pF/m):	42.5 (approx.)
velocity of propagation (c):	0.78 (approx.)
phase delay (ns/100m):	430 (approx.)
delay skew at 100 MHz (ns/100m):	4 (approx.)
characteristic impedance at 100 MHz (Ohm):	100±5
test voltage Ueff (V):	1000
operating voltage (V):	125 (max.)

frequentz 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(2014)/IEC 61156-6(2002)

INDUSTRY



Chemical characteristics:

Free of hazardous substances acc. to RoHS 2011/65/EU
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

certificate and approbation:

quality seal with production control:
Link Performance:
test certificate:
conform to LVD (2014/35/EU)

Thermal characteristics:

Temperature range for fixed installation -25°C up to +70°C
Temperature range for mobile operation 0°C up to +50°C

GL (Germanischer Lloyd), DNV (Det Norske Veritas), ABS (American Bureau of Shipping), BV (Bureau Veritas)
KERPEN MegaLine® systems and further commercial plug-in connector acc. to DIN 55350-18-4.2.1 bzw. EN 10204



Article Number:	Presentation (m)	Size:	Outer diameter (mm):	weight (kg/km):	copper sales factor (kg/km):	colour of outer sheath:
KD7D6604K010000	general	4P	9.0 (approx.)	74 (approx.)	35	black
KD7D6604K010050	500					
KD7D6604K010100	1000					

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