

## MegaLine® RGB 500

### S<sub>3</sub> P<sub>2</sub> A<sub>3</sub> C<sub>5</sub> E<sub>5</sub>

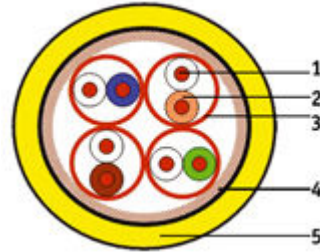
**Type:**  
KS-02YSCH 4x2xAWG 22/1 PIMF

**Category:** "6<sub>A</sub>"



**Construction:**

- 1 Conductor: bare copper wire, AWG 22/1
- 2 Insulation: cellular-PE, core-Ø: nominal value 1,6 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

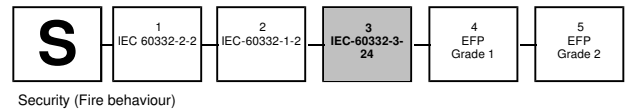
Printing outer sheath:  
LEONI MegaLine RGB 500 Low Skew 4P H SPACE Code 32355 \$Production lot code\$ \$Meter marking\$

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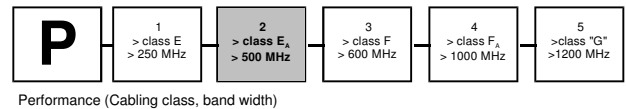
**Fire behaviour:**

- 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): 0,7 (approx.)



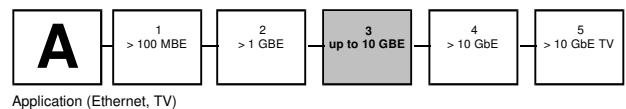
**Performance:**

better than category 6 acc. EN 50288 and IEC 61156 very good NEXT, very low attenuation, very good screening characteristics (individual and overall screen), extrem low SKEW  
Bandwidth 600 MHz



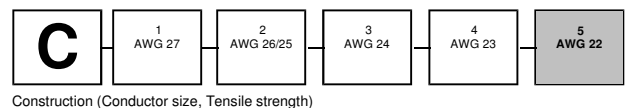
**Applications:**

Installation cable for generic cabling systems acc. ISO/IEC 11801 and EN 50173 (2. edition). Ideal for all applications of classes D up to EA Multimedia (Video, Data, Voice) < 10 GbE acc. IEEE 802.3, Cable sharing, VoIP, PoE. Optimized for video transmission to 500m due to extremely low SKEW.



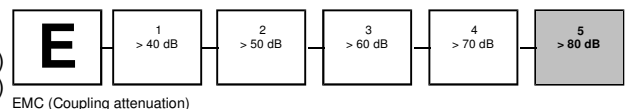
**Mechanical characteristics:**

- Bending radius: 130 (max.)
- during installation: 8 x overall diameter (min.)
- after installation: 4 x overall diameter (min.)
- Tensile strength: 1000
- Crush (N/100mm): 10
- Impact (number of shocks): 10



**Electromagnetic behaviour:**

- Transfer impedance at 10 MHz (mOhm/m): 5 (nominal value)
- Screening attenuation up to 1000 MHz (dB): 70 (nominal value)
- Coupling attenuation up to 1000MHz (dB): 85 (nominal value)



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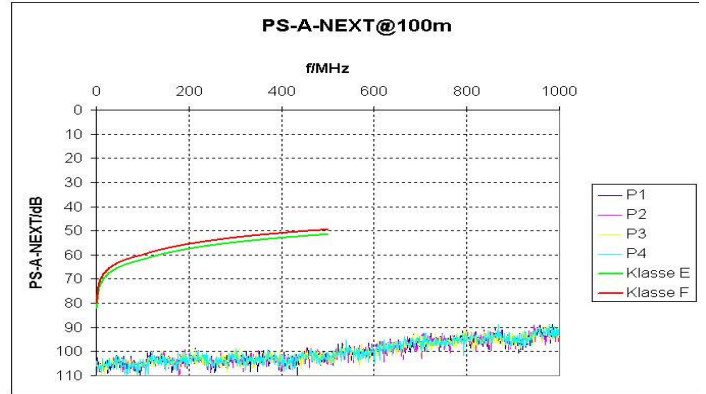
MegaLine® RGB 500

**Type:**  
KS-02YSCH 4x2xAWG 22/1 PIMF



#### Electrical characteristics at 20°C:

DC resistance (Ohm/km):	57,1 (max.)
Insulation resistance (Gohm x km):	5 (min.)
Mutual capacitance (pF/m):	42 (approx.)
Transfer capacitance (e) (pF/km):	1500 (approx.)
Signal velocity (c):	0,8 (approx.)
Propagation delay (ns/100m):	420 (approx.)
Skew at 100 MHz (ns/100m):	1,5 (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		EL-FEXT dB@100m		PS-ELFEXT dB@100m		RL dB	
	typ.	Cat.6 max.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*	typ.	Cat.6 min.*
1	1,7	2	95	66	92	64	93	64	90	62	91	66	88	63	26	-
10	4,5	5,9	90	59	87	57	85	53	82	51	96	57	93	54	35,9	25
100	15,4	19	75	44	72	42	57	25	54	23	90	42	87	39	37,2	20,1
200	22,9	27,5	68	40	65	38	42	12	39	10	78	38	75	35	33,1	18
250	26	31	66	38	63	36	36	7	33	5	75	36	72	33	30,5	17,3
300	28,5	34,2	65	37	62	35	33	3	30	1	72	35	69	32	29,9	17,3
450	34,1	42,7	63	35	60	33	24	-8	21	-10	69	33	66	30	28,9	17,3
500	35,9	45,3	61	34	58	32	20	-11	17	-13	66	32	63	29	28,3	17,3
600	40,4	-	57	-	54	-	11	-	8	-	60	-	57	-	27,2	-

\* EN 50288-10-1 (draft)/EN 50288-5-1(2004)/IEC 61156-5(2002)

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#### Chemical characteristics:

Free of hazardous substances acc. to RoHS 2002/95/EG

#### 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

Link performance  
Inspection certificate:  
In agreement to LVD (73/23/EEC)

LEONI MegaLineNet® 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:
AKS60308	4P	8,6 (approx.)	80 (approx.)	48	yellow, RAL-1021

Package: Drum 1000m