

MegaLine® D1-20 F/U flex

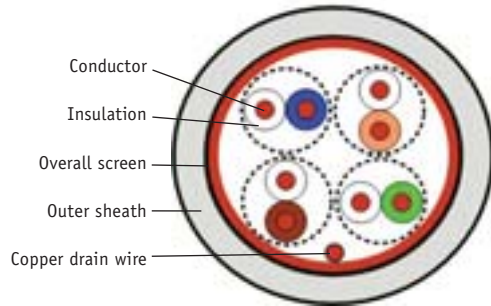
S₂P₀A₁C₂E₂

Type: KS-02YS(ST)H 4x2xAWG 26/7



Construction:

Conductor: bare stranded copper wire, AWG26/7
 Insulation: cellular-PE, core-Ø: max. 1.0 mm
 Twisting element: Pair
 Twisting: 4 pairs
 Overall screen: aluminium bonded polyester tape, metal side inside, with underlayered tinned copper drain wire AWG 26/7
 Outer sheath: halogen-free, flame retardend compound



Printing outer sheath:

KERPEN MegaLine® D1-20 F/U flex 4P H
 SPACE CODE 20122
 "Production lot code" "Meter marking"

Colour code: whbu/bu, whor/or, whgn/gn, whbn/bn
 Colour outer sheath: grey, RAL 7035

Fire behaviour:

Flame retardance: acc. to IEC 60332-1-2
 Halogen acid gas emission: acc. to IEC 60754-2
 Smoke density: acc. to IEC 61034
 Calorific value (MJ/m): 0.30 (approx.)

S	1	2	3	4	5
	IEC 60332-2-2	IEC-60332-1-2	IEC-60332-3-24	EFP Grade 1	EFP Grade 2

Security (Fire behaviour)

Performance:

Better than category 5 acc. EN 50288 and IEC 61156
 Bandwidth 200 MHz

P	1	2	3	4	5
	> class E > 250 MHz	> class E _A > 500 MHz	> class F > 600 MHz	> class F _A > 1,000 MHz	> class "G" > 1,200 MHz

Performance (Cabling class, bandwidth)

Applications:

Connecting cable and patch cord for generic cabling systems acc. ISO/IEC 11801 and EN 50173 (2. edition). Ideal for all applications of class D up to 1 GbE acc. IEEE 802.3 ab, VoIP, PoE

A	1	2	3	4	5
	> 100 MbE	> 1 GbE	up to 10 GbE	> 10 GbE	> 10 GbE TV

Application (Ethernet, TV)

Mechanical characteristics:

Bending radius:
 during operation: min. 5 x overall diameter
 Tensile strength: 60 (max.)

C	1	2	3	4	5
	AWG 27	AWG 26/25	AWG 24	AWG 23	AWG 22

Construction (Conductor size, Tensile strength)

Elektromagnetisches Verhalten:

Transfer impedance at 10 MHz (mOhm/m):
 80 (nominal value)
 Screening attenuation up to 1,000 MHz (dB):
 50 (nominal value)
 Coupling attenuation up to 1,000 MHz (dB):
 60 (nominal value)

E	1	2	3	4	5
	> 40 dB	> 50 dB	> 60 dB	> 70 dB	> 80 dB

EMC (Coupling attenuation)

Electrical characteristics at 20°C:

- DC resistance (Ohm/km): 145 (max.)
- Insulation resistance (Gohm x km): 500 (min.)
- Mutual capacitance (pF/m): 47 (approx.)
- Signal velocity (c): 0.69 (approx.)
- Propagation delay (ns/100m): 485 (approx.)
- Skew at 100 MHz (ns/100m): 18 (approx.)
- Characteristic impedance at 100 MHz (Ohm): 100 ± 5
- Test voltage Ueff (V): 1,000
- Operating voltage Ueff (V): 125 (max.)

Frequency 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.5 max.*	typ	Cat.5 min.*	typ	Cat.5 min.*	typ	Cat.5 min.*	typ	Cat.5 min.*	typ	Cat.5 min.*	typ	Cat.5 min.*	typ	Cat.5 min.*
1	0.24	0.32	76	65	73	62	76	65	73	62	91	64	88	61	24.9	-
4	0.44	0.6	71	56	68	53	70	56	67	53	76	52	73	49	29.8	23
10	0.8	0.95	64	50	61	47	63	49	60	47	68	44	65	41	38.2	25
16	1.01	1.21	60	47	57	44	59	46	56	44	64	40	61	37	39.3	25
31.25	1.44	1.71	56	43	53	40	54	41	51	40	58	34	55	31	36.7	23.6
62.5	2.07	2.48	52	38	49	35	50	36	47	35	52	28	49	25	35	21.5
100	2.66	3.2	48	35	45	32	45	32	42	32	47	24	44	21	29.9	20.1
155	3.26	-	45	-	42	-	42	-	39	-	42	-	39	-	26.2	-
200	3.86	-	42	-	39	-	39	-	36	-	37	-	34	-	23.5	-

* EN 50288-2-2/IEC 61156-6


Chemical characteristics:

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

Certificates and Approvals:

Link performance: KERPEN ELine™ systems and further commercial cabling systems

Inspection certificate: acc. to DIN 55350-18-4.2.1 respectively EN 10204

In agreement to LVD (73/23/EEC): 

Thermal characteristics:

Temperature range for fixed installation: -20°C up to + 60°C

Temperature range for mobile operation: 0°C up to + 50°C

Article number	Size	Overall diameter mm	Weight kg/km	Copper number kg/km	Colour sheat
7KS50007	4P	5.0 (approx.)	26 (approx.)	16	grey, RAL 7035

Package: Drum 1,000 m