

# MegaLine® D1-20 S/U 11Y superflex

S<sub>1</sub>P<sub>0</sub>I<sub>1</sub>C<sub>2</sub>E<sub>4</sub>

**Type:**

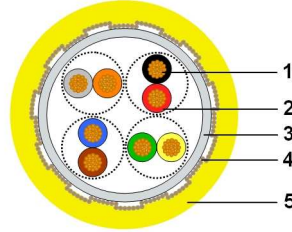
KS-6Y3GC11Y 4x2xAWG 26/19

**Category:** 5



**Construction:**

- 1 Conductor: bare copper wire, AWG26/19
- 2 Insulation: FEP, core-Ø: max. 1.0 mm
- Twisting element: pair
- Twisting: 4 pairs
- Bound: fleece foil
- 3 Inner sheath: EPDM
- Bound: fleece foil
- 4 Overall screen: tinned copper braid, optical cover ca. 90%
- 5 Outer sheath: PUR



colour code: gr/or, bl/rt, gn/ge, bl/br  
 colour inner sheath: grey, RAL-7035  
 Colour outer sheath: yellow, RAL-1021

printing outer sheath:

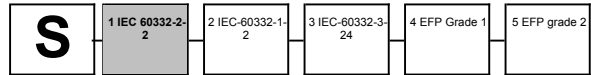
**INDUSTRY**

LEONI MegaLine D1-20 S/U superflex 4P 11Y SPICE Code 10124 \$Production lot code\$ \$Meter marking\$



**fire behaviour:**

flame resistance: acc. to IEC 60332-2-2  
 fire load (MJ/m): 0.7 (approx.)



Security (fire behaviour)

**capability characteristics:**

better than category 5 acc. to EN 50288 and IEC 61156 excellent screen properties  
 bandwidth 100 MHz



Performance (class, bandwidth)

**applications:**

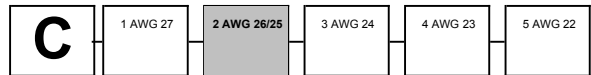
Connecting cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (2nd edition) and also acc. to ISO/IEC 24702 and EN 50173-3. Ideal for all applications of class D up to 1 GbE acc. to IEEE 802.3 ab, VoIP, PoE. For application in rough environment because of EPDM-insidesheath and extrem sturdy PUR-outer sheath. qualified for drag chain use (typical 5 Mio. cycles). Torsion suitable acc. to EN 50289-3-10.



application (Ethernet, TV)

**mechanical characteristics:**

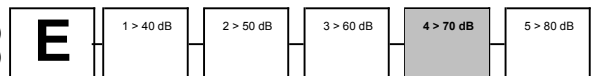
bending radius:  
 in operation: 5 x outer diameter (min.)  
 tensile loading (N): 60 (max.)  
 crush resistance (N/100mm): 2000  
 impact strength (quantity of impacts): 20



Construction (conductor size, tensile strength)

**electromagnetic behaviour:**

transfer impedance at 10 MHz (mOhm/m): 25 (nominal value)  
 screen attenuation up to 1000 MHz (dB): 55 (nominal value)  
 coupling attenuation up to 1000 MHz (dB): 75 (nominal value)



EMC (coupling attenuation)

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## S<sub>1</sub>P<sub>0</sub>I<sub>1</sub>C<sub>2</sub>E<sub>4</sub>

Type:

KS-6Y3GC11Y 4x2xAWG 26/19

# LEONI



### Electrical characteristics at 20°C:

DC resistance (Ohm/km):	130 (max.)
insulation resistance (GOhm x km):	5 (min.)
mutual capacitance (pF/m):	50 (approx.)
signal tempo (c):	0.68 (approx.)
signal transit time (ns/100m):	490 (approx.)
Skew at 100 MHz (ns/100m):	15 (approx.)
Characteristic impedance at 100 MHz (Ohm):	100±5
test voltage U <sub>eff</sub> (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	,22	,32	80	65	77	62	80	65	77	62	80	64	77	61	27	-
4	,56	,6	67	56	64	53	67	56	64	53	69	52	66	49	26	23
10	1	1,05	63	50	60	47	62	49	59	47	61	44	65	58	30	25
16	1,35	1,45	61	47	58	44	60	46	57	44	56	40	53	37	30	25
20	1,5	1,6	59	46	56	43	58	44	55	43	53	38	50	35	30	25
31,25	1,95	2	57	43	54	40	55	41	52	40	48	34	45	31	30	23,6
62,5	2,95	3	52	38	49	35	50	36	47	35	43	28	40	25	28	21,5
100	3,95	4	45	35	42	32	42	32	39	32	38	24	35	21	26	20,1

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

INDUSTRY



### Chemical characteristics:

Free of hazardous substances acc. to RoHS 2002/95/EG  
 Oil resistance acc. to EN 60811-2-1  
 ozone resistance acc. to EN 60811  
 microbe resistant acc. to DIN VDE 0282  
 chemical resistant  
 Hydrolysis resistant acc. to DIN 53504  
 Free of lackbewet substances (e.g. silicon oil)

### Thermal characteristics:

Temperature range for fixed installation -40°C up to +85°C  
 Temperature range for mobile operation 0°C up to +50°C

### certificate and approbation:

Link Performance:  
 test certificate:  
 conform to LVD (2006/95/EC):

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:
7KS50051	4P	6.8 (approx.)	58 (approx.)	28,6	yellow, RAL-1021

packaging: drum 1000m