

MegaLine® D1-20 SF/U flex

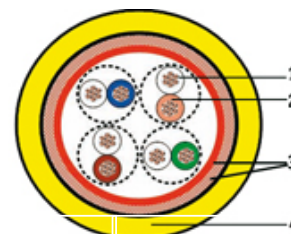
S₂P₀A₁C₂E₃

Type:
KS-2Y(ST+C)Y 4x2xAWG 26/7

Category: 5



- Construction:**
- 1 Conductor: bare copper wire, AWG26/7
 - 2 Insulation: PE, core-Ø: max. 1.0 mm
 - Twisting element: pair
 - Twisting: 4 pairs
 - 3 Overall screen: aluminum-bonded polyester tape and tinned copper wire braid
 - 4 Outer sheath: PVC



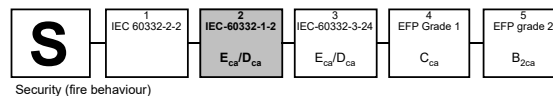
colour code: whbl/bl, whor/or, whgn/gn, whbr/br
Colour outer sheath: yellow, RAL-1021

printing outer sheath:
\$Production lot code\$

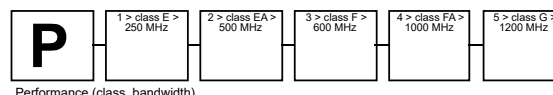
OFFICE



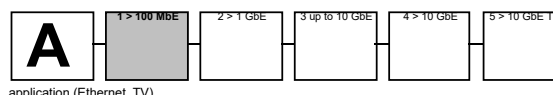
fire behaviour:
flame resistance: acc. to IEC 60332-1-2
fire load (MJ/m): 0.4 (approx.)



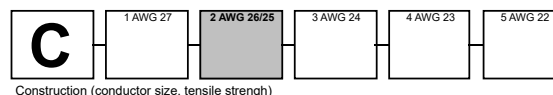
performance:
better than category 5 acc. to EN 50288 and IEC 61156 excellent screen properties
bandwidth (typical): 200 MHz



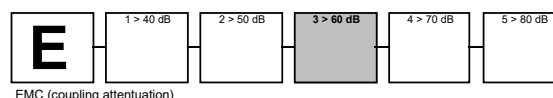
applications:
Connecting cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition). Ideal for all applications of class D up to 1 GbE acc. to IEEE 802.3 ab, VoIP, PoE/PoE+



mechanical characteristics:
bending radius:
in operation: 5 x outer diameter (min.)
tensile loading (N): 60 (max.)



electromagnetic behaviour:
transfer impedance at 10 MHz (mOhm/m): 10 (nominal value)
screen attenuation up to 1000 MHz (dB): 50 (nominal value)
coupling attenuation up to 1000 MHz (dB): 65 (nominal value)
Segregation class according EN 50174-2:: c



FELTEN Wire and Cable Solutions BV reserves the right to make changes to the product described in this specification without prior notice. FELTEN does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.

MegaLine® D1-20 SF/U flex

S₂P₀A₁C₂E₃

Type:

KS-2Y(ST+C)Y 4x2xAWG 26/7



Electrical characteristics at 20°C:

| | |
|--|----------------|
| conductor resistance (Ohm/km): | 145 (max.) |
| insulation resistance (GOhm x km): | 5 (min.) |
| mutual capacitance (pF/m): | 51 (approx.) |
| velocity of propagation (c): | 0.65 (approx.) |
| phase delay (ns/100m): | 510 (approx.) |
| delay skew at 100 MHz (ns/100m): | 15 (approx.) |
| characteristic impedance at 100 MHz (Ohm): | 100±5 |
| test voltage U _{eff} (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.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 | ,24 | ,32 | 76 | 65 | 73 | 62 | 76 | 65 | 73 | 62 | 91 | 64 | 88 | 61 | 24,9 | - |
| 4 | ,44 | ,6 | 71 | 56 | 68 | 53 | 70 | 56 | 67 | 53 | 76 | 52 | 73 | 49 | 29,8 | 23 |
| 10 | ,8 | ,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(2014)/IEC 61156-6(2010)

OFFICE



Chemical characteristics:

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

Thermal characteristics:

Temperature range for fixed installation
Temperature range for mobile operation-20°C up to +60°C
0°C up to +50°C

certificate and approbation:

Link Performance:
test certificate:
conform to LVD (2014/35/EU)KERPEN MegaLine® systems and further commercial plug-in connector
acc. to DIN 55350-18-4.2.1 bzw. EN 10204

| Article Number: | Size: | Outer diameter (mm): | weight (kg/km): | copper sales factor (kg/km): | colour of outer sheath: |
|-----------------|-------|----------------------|-----------------|------------------------------|-------------------------|
| LKD7KS500240000 | 4P | 5.5 (approx.) | 33 (approx.) | 21 | yellow, RAL-1021 |