

MegaLine® F10-120 S/F FLEX

KS-02YSC11Y 4 x 2 x AWG 26/7 PIMF

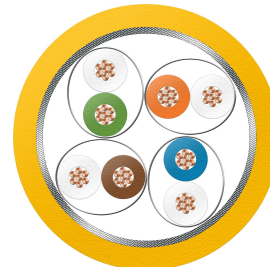
 Category 7 **S₁ P₄ A₅ C₂ E₅**


Illustration similar

Construction

Conductor bare copper wire, AWG26/7
 Insulation cellular-PE, core-Ø: max. 1.05 mm
 Colour code wh/bl, wh/or, wh/gn, wh/br
 Element cores to pair
 Pair shielding aluminium-bonded polyester tape

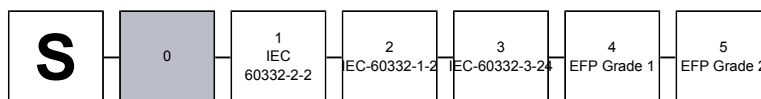
Twisting 4 pairs
 Overall screen tinned copper wire braid
 Outer sheath PUR
 Colour Colza yellow

Cable marking

KERPEN DATACOM Made in Germany MegaLine F10-120 S/F flex 4P 11Y Cat.7A \$BA-Nr.\$ \$m-sign.\$

Fire Behaviour

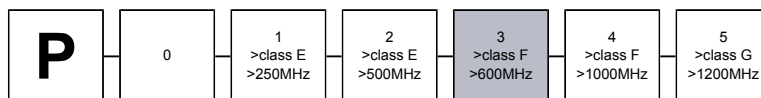
Flame retardancy acc. to IEC 60332-2-2
 Halogen-free IEC 60754-1/2
 Smoke density IEC 61034-1/2
 Fire load (approx.) 0.55 MJ/m



Security (fire behaviour)

Performance

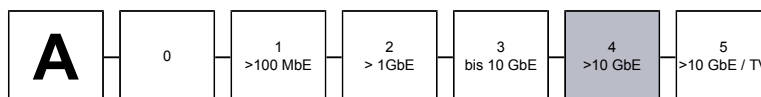
better than Category 7 acc. to EN 50288 and IEC 61156
 excellent NEXT, low attenuation, exzellente screen properties (pair- and overall screen), low Skew
 Transmission bandwidth (typ.) 1200 MHz



Performance (class, bandwidth)

Applications

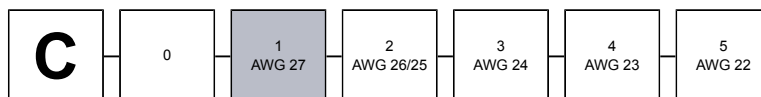
Connecting cable and patch cord for generic cabling systems acc. to ISO/IEC 11801 and EN 50173 (3rd edition) and also acc. to ISO/IEC 24702 and EN 50173- 3. Ideal for all applications of class D up to F Multimedia (Video, Data, Voice) >10 GbE acc. to IEEE 802.3an, Cable sharing, VoIP, PoE/PoE +/4PPoE. For application in rough environment because of sturdy PUR-sheath.



Application (Ethernet, TV)

Mechanical characteristics (cable)

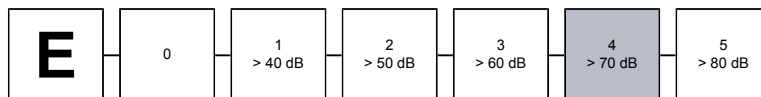
Bending radius (static) (min.) 5x outer-Ø
 Tensile loading (max.) 60 N



Construction (conductor size, tensile strength)

Electromagnetic behaviour

Coupling resistance @ 10 MHz (nom.) 5 mΩ/m
 Screen attenuation (nom.) 60 dB
 Coupling attenuation (nom.) 85 dB
 Segregation class according EN 50174-2 d



EMC (coupling attenuation)

MegaLine[®] F10-120 S/F FLEX

KS-02YSC11Y 4 x 2 x AWG 26/7 PIMF

Category 7 **S₁ P₄ A₅ C₂ E₅**

Electrical properties at 20°C

DC resistance (max.)	145 Ω/km
Insulation resistance (min.)	5 GΩ x km
Operating capacity (approx.)	44 pF/m
Signal velocity (approx.)	0.78 x c
Phase delay	440 ns/100m
Skew @ 100 MHz (approx.)	2 ns/100m
Characteristic impedance @ 100 MHz	100 +/- 5 Ω
Test voltage	1000 V
Operating voltage (max.)	125 V

Thermal characteristics (cable)

Temperature (transport / storage)	-40 °C up to +70 °C
Temperature during installation	-10 °C up to +50 °C
Temperature after installation	-40 °C up to +70 °C

Chemical characteristics

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

* EN 50288-4-2(2014)/IEC 61156-6(2020)

Standards, certificates and approvals

Conformity	acc. to LVD (2014/35/EU)
Link Performance	KERPEN DATACOM MegaLine [®] systems and further commercial plug-in connector
Inspection certificate	*UNDEFINED TEXT*

Part number	Drum packing	Weight	copper weight	Outer Ø approx.	Colour
LKD7KS700900100	1000 m	48 kg/km	23 kg/km	6.8 mm	Colza yellow