



KI-Line[®] INDUSTRIAL CABLES

Designed for your demands



Control



Production



Process

YOUR APPLICATIONS - OUR SOLUTIONS

Oil & Gas



Power generation
and Power distribution



Further
Applications

Compounds

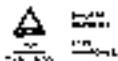


Chemical
Industry



- ▶ **Halogen-free**
IEC 60754-1, EN 50267-2-1
- ▶ **Corrosive effects of combustion gases**
IEC 60754-2, EN 50267-2-2
- ▶ **Smoke density**
IEC 61034, EN 61034
- ▶ **Flame retardancy**
IEC 60332-1, EN 60332-1, VDE 0482-332-1
- ▶ **Reduced flame propagation**
IEC 60332-3, EN 60332-3, VDE 0482-332-3 series
- ▶ **Construction products regulation**
EN 50575, EN 50399, EN 60332-1
- ▶ **IT cabling systems for offices**
EN 50173-2, ISO/IEC 11801
- ▶ **IT cabling systems for industry**
EN 50173-3, ISO/IEC 24702
- ▶ **IT cabling systems for data centers**
EN 50173-5, ISO/IEC 24764

Numerous national and international certificates confirm the company's ability to provide innovative solutions.



ALWAYS WELL CONNECTED - KI-Line®, PROVEN QUALITY

The secure connection



1919



1972



2000



2006



2021

KERPEN
DATACOM



Building on the activities of the Kerpen plant founded in Stolberg in 1919, KERPEN DATACOM GmbH commenced production and trade of passive data network components, such as copper- or fiber-based data cables, RJ45 connectors, patch cables, and data center equipment on July 1, 2021. Complete passive cabling systems are offered to meet high-end requirements for data rates, reliability, and workability. In this domain, KERPEN DATACOM ranks among the top 3 providers in Germany. The product range's applications span from building infrastructure to Industry 4.0. LAN for offices, LAN for industries, and data centers, united by the common denominators of Ethernet and Internet Protocol (IP), are merging and reshaping the communication landscape. Moreover, KERPEN DATACOM GmbH manufactures PVC compounds for the cable industry.

With 200 qualified employees boasting an average of 15 years of tenure and well-established facilities, consistent top-quality and delivery reliability are maintained.



STANDARD DOCUMENTATION

- ▶ Technical data sheet
- ▶ Safety data sheet
- ▶ Individually agreed test certificate
- ▶ Certification

nach DIN EN ISO 9001:2015, DIN EN ISO 14001:2015, DIN ISO 45001:2018

FIELDBUS CABLES

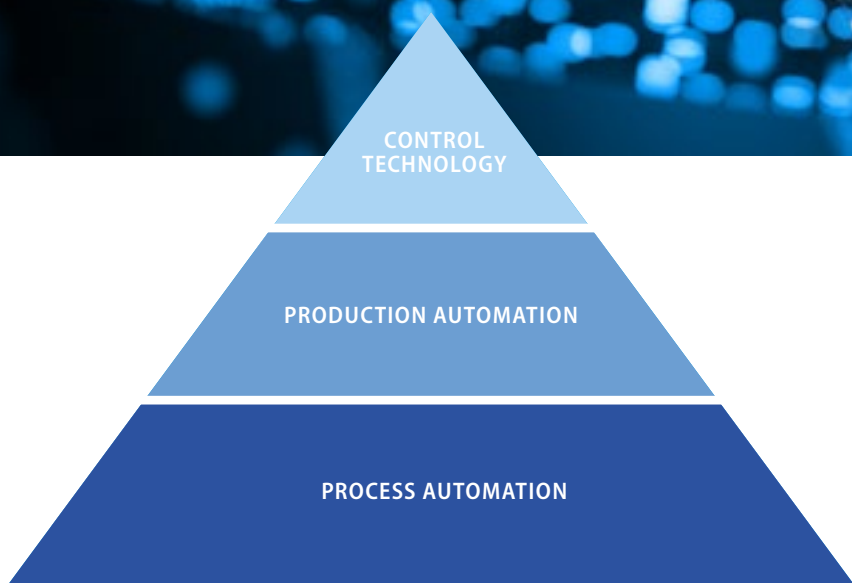
Profibus FMS/DP, Fieldbus Foundation, CAN Bus










Technical Data			
	Profibus FMS/DP - 150 Ω -	Fieldbus Foundation - 100 Ω -	CAN BUS - 120 Ω -
Insulation / Outer sheath	Foam-PE / LSZH o. PVC	Foam-PE o. VPE o. PE / LSZH o. PVC	VPE o. PE / LSZH o. PVC
Conductor design	solid & stranded wires		
Number of conductors	2, 4		
Cross sections	AWG24, 22, 18, 16		
Screen	aluminum/PET tape, aluminum/PET tape + tinned copper wire braid, aluminum/ PET tape + tinned copper wire braid + tinned copper drain wire		
Technical description	FB-02YS(ST)Y-fl - FB-02YS(ST+CE)H	FB-02YS(ST)Y-fl - FB-2X(ST+CE)H	FB-v2Y(ST+Ce)Y-fl - FB-v2XCeH
Characteristics	halogen free, flame retardant, low smoke emission		
	PVC enhanced flame retardancy		
Installation type	Recommended for indoor and outdoor installation, on racks, trays, in conduits, in dry and wet locations.		
Bending radius	7.5 x outer diameter		
Flame retardancy			
a) Test on single cable	IEC 60332-1-2		
b) Test on bunched cables	IEC 60332-3 / -24 (Cat. C) / -22 (Cat. A)		
Temperature range			
In operation	-40°C up to 70°C	-40°C up to 70°C / 90°C	-40°C up to 70°C / 90°C
During installation	-5°C up to 50°C	-5°C up to 50°C	-5°C up to 50°C
Application	"Fieldbus cable type A for bus systems Profibus FMS/DP and FIP according to IEC 61158-2 (interface RS 485). Suitable for use in hazardous classified locations class I and class II division 2 acc. to NEC 501.10(B) and NEC 502.10(B) or zone 1 and zone 2, group II, acc. to IEC 60079-14, resp.	Fieldbus cable type A, for bus systems Fieldbus Foundation acc. to IEC 61158-2. Suitable for use in hazardous classified locations class I and class II division 2 acc. to NEC 501.10(B) and NEC 502.10(B) or zone 1 and zone 2, group II, acc. to IEC 60079-14, resp.	For transmission of CAN (Control Area Network) bus signals or computer signals with RS 485 or RS 422 interface. Not allowed for direct connection to low impedance source, e.g. the public mains electricity supply. CAN bus cable for automation technology for the control of actuators and sensors

HIERARCHY MODEL

Industrial data transmission



Digital communication and data transmission within a production structure occur horizontally, meaning between devices on the same level, and vertically towards systems on different hierarchical levels. For this purpose, Kerpen Datacom fulfills all expectations and technical standards with its complete product portfolio.

Category	Cable type	Control cables & Instrumentation Cables
<p>CONTROL LEVEL</p> <ul style="list-style-type: none"> ▶ Ethernet TCP/IP copper cable ▶ Fibre optic cable 		
<p>AUTOMATION LEVEL</p> <ul style="list-style-type: none"> ▶ HSE-Industrial Ethernet cable ▶ Profibus FMS/DP 	 	 
<p>FIELD LEVEL</p> <ul style="list-style-type: none"> ▶ 4 ... 20 mA/Hart Instrumentation cable ▶ Foundation™ Fieldbus cable ▶ Profibus PA cable ▶ Ex i 	 	

CONTROL CABLES

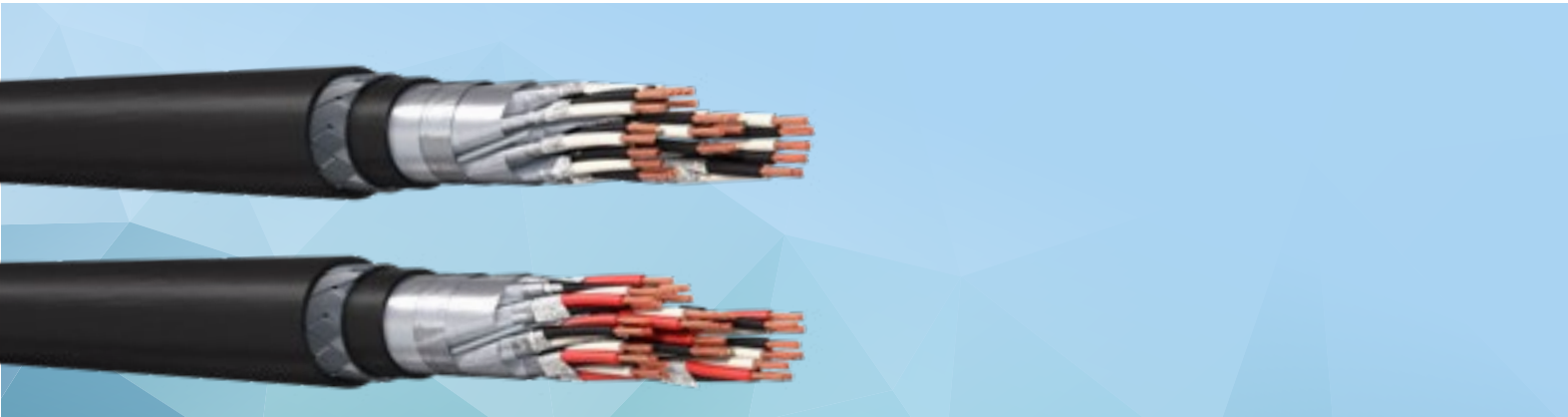
SL-2XCH-OZ, 2-12x1.5-2.5-4-6mm²



Technical Data	
Insulation / Outer sheath	VPE / LSZH o. PVC
Conductor design	stranded wires
Number of conductors	2, 4, 6, 8, 10, 12
Cross sections	1.5 / 2.5 / 4 / 6 mm ²
Screen	tinned copper braid
Technical description	SL-2XCH-OZ SL-2XCY-fl
Characteristics	halogen free, flame retardant, low smoke emission
	PVC enhanced flame retardancy
Installation type	Recommended for indoor and outdoor installation, on racks, trays, in conduits, in dry and wet locations.
Bending radius	6 x outer diameter
Flame retardancy	
a) Test on single cable	IEC 60332-1-2
b) Test on bunched cables	IEC 60332-3 / -24 (Cat. C) / -22 (Cat. A)
Temperature range	
In operation	-40°C up to 90°C
During installation	-5°C up to 50°C
Application	For electricity supply and control in industrial plants and substations.

INSTRUMENTATION CABLES ACC. TO EN 50288-7

RE-2X(ST)YV-FL, RE-Y(ST)YQY-FL, 1-12x 0.5-0.75-1-1.3-1.5-2.5mm²



Technical Data		
Insulation / Outer sheath	PVC/ PVC	XLPE/ PVC
Conductor design	solid & stranded wires	
Number of Conductors	1, 2, 4, 5, 6, 8, 10, 12	
Cross sections	0.5 / 0.75 / 1 / 1.3 / 1.5 / 2.5 mm ²	
Screen	aluminium/PET tape + tinned copper drain wire, tinned copper wire braid, tinned copper wire braid + tinned copper drain wire	
Technical description	RE-Y(ST)Y-fl	RE-2X(ST)Y-fl
Installation type	Recommended for indoor and outdoor installation, on racks, trays, in conduits, in dry and wet locations.	
Bending radius	7.5 x outer diameter	
Flame retardancy		
a) Test on single cable	IEC 60332-1	
b) Test on bunched cables	IEC 60332-3 / -24 (Cat. C) / -22 (Cat. A)	
Temperature range		
In operation	-40°C up to 105°C	-40°C up to 90°C
During installation	-5°C up to 50°C	-5°C up to 50°C
Application	For the transmission of analogue and digital signals in instrumentation and control systems; allowed for use in zone 1 and zone 2 group II classified areas (IEC 60079-14); not allowed for direct connection to low impedance source, e.g. the public mains electricity supply.	

KERPEN DATACOM LATEST NEWS

Further catalogues on the topics of **MegaLine®**, **GigaLine®** und **VarioLine®** connection systems can be found online.

With current information services like the KERPEN DATACOM newsletter, we keep you updated on the latest developments at KERPEN DATACOM and in the market.

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