

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>IS-M12-I</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6115, FB 6215	235 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>IS-M12-I</u>				
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm
<u>Series 195</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
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- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

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Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series 302 (LP1 "12V" 0.5W)</u>				
	LB 2102, FB 2202		> 1 km	0 ... 145 Ohm
	LB 2103, FB 2203	740 m		0 ... 10 Ohm (Tu=45°C)
	LB 2104, FB 2204	> 1 km		0 ... 74 Ohm
	LB 2105, FB 2205	950 m		0 ... 28 Ohm
	LB 2112, FB 2212	740 m		0 ... 65 Ohm
	LB 2116, FB 2216	1000 m		0 ... 67 Ohm
	LB 2117, FB 2217	> 1 km		0 ... 10 Ohm (Tu=45°C)
	LB 6110, FB 6210	740 m		0 ... 10 Ohm (Tu=50°C)
	LB 6111, FB 6211	740 m		0 ... 10 Ohm (Tu=50°C)
	LB 6113, FB 6213	880 m		0 ... 35 Ohm
	LB 6115, FB 6215	235 m		0 ... 40 Ohm
	LB 6116, FB 6216	1000 m		0 ... 67 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... 196 Ohm
	LB 6117, FB 6217	> 1 km		0 ... 10 Ohm (Tu=45°C)

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

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Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### ASCO

#### Series 302 (LP1 "24V" 0.25W)

LB 2101, FB 2201	> 1 km	0 ... 87 Ohm
LB 2102, FB 2202	> 1 km	0 ... 292 Ohm
LB 2103, FB 2203	740 m	0 ... 142 Ohm
LB 2104, FB 2204	> 1 km	0 ... 182 Ohm
LB 2105, FB 2205	950 m	0 ... 152 Ohm
LB 2112, FB 2212	740 m	0 ... 238 Ohm
LB 2116, FB 2216	1000 m	0 ... 194 Ohm
LB 2117, FB 2217	> 1 km	0 ... 10 Ohm (Tu=50°C)
LB 6110, FB 6210	740 m	0 ... 157 Ohm
LB 6111, FB 6211	740 m	0 ... 157 Ohm
LB 6113, FB 6213	880 m	0 ... 162 Ohm
LB 6114, FB 6214	880 m	0 ... 97 Ohm
LB 6115, FB 6215	235 m	0 ... 34 Ohm
LB 6116, FB 6216	1000 m	0 ... 194 Ohm
LB 6116, FB 6216_2in1	760 m	0 ... > 300 Ohm
LB 6117, FB 6217	> 1 km	0 ... 10 Ohm (Tu=50°C)

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series 302 (LP1 "24V" 0.5W)</u>				
	LB 2102, FB 2202		> 1 km	0 ... 43 Ohm
	LB 2112, FB 2212	740 m		0 ... 10 Ohm (Tu=45°C)
	LB 6116, FB 6216_2in1		760 m	0 ... 84 Ohm
<u>Series 622 (Spool Valve Island)</u>				
	LB 2101, FB 2201		> 1 km	0 ... 87 Ohm
	LB 2102, FB 2202		> 1 km	0 ... 292 Ohm
	LB 2103, FB 2203	740 m		0 ... 142 Ohm
	LB 2104, FB 2204	> 1 km		0 ... 182 Ohm
	LB 2105, FB 2205	950 m		0 ... 152 Ohm
	LB 2112, FB 2212	740 m		0 ... 238 Ohm
	LB 2116, FB 2216	1000 m		0 ... 194 Ohm
	LB 2117, FB 2217	> 1 km		0 ... 10 Ohm (Tu=50°C)
	LB 6110, FB 6210	740 m		0 ... 157 Ohm
	LB 6111, FB 6211	740 m		0 ... 157 Ohm
	LB 6113, FB 6213	880 m		0 ... 162 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

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Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series 622 (Spool Valve Island)</u>				
	LB 6114, FB 6214	880 m		0 ... 97 Ohm
	LB 6115, FB 6215	235 m		0 ... 34 Ohm
	LB 6116, FB 6216	1000 m		0 ... 194 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... 10 Ohm (Tu=50°C)
<u>Series 630: Piezotronic 12V (12mW Version)</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

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		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series 630: Piezotronic 12V (12mW Version)</u>				
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>Series 630: Piezotronic 12V (32mW Version)</u>				
	LB 2101, FB 2201		> 1 km	0 ... 155 Ohm
	LB 2103, FB 2203	740 m		0 ... 110 Ohm
	LB 2104, FB 2204	> 1 km		0 ... 250 Ohm
	LB 2105, FB 2205	950 m		0 ... 180 Ohm
	LB 2112, FB 2212	740 m		0 ... 141 Ohm
	LB 2116, FB 2216	1000 m		0 ... 212 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
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- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

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Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### ASCO

#### Series 630: Piezotronic 12V (32mW Version)

LB 6110, FB 6210	740 m		0 ... 100 Ohm
LB 6111, FB 6211	740 m		0 ... 100 Ohm
LB 6112, FB 6212	> 1 km		0 ... 285 Ohm
LB 6113, FB 6213	880 m		0 ... 180 Ohm
LB 6114, FB 6214	880 m		0 ... 115 Ohm
LB 6116, FB 6216	1000 m		0 ... 212 Ohm
LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
LB 7104, FB 7204	> 1 km		0 ... 69 Ohm

#### Series 630: Piezotronic 24V (46mW Version)

LB 2112, FB 2212	740 m		0 ... 41 Ohm
LB 6108A, FB 6208B	XXX m	XXX	0 ... XXX Ohm

#### Series 630: Piezotronic 6V (3mW Version)

LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
LB 2103, FB 2203	740 m		0 ... > 300 Ohm

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- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve



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Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### ASCO

#### Series 630: Piezotronic 6V (3mW Version)

LB 2104, FB 2204	> 1 km	0 ... > 300 Ohm
LB 2105, FB 2205	950 m	0 ... > 300 Ohm
LB 2112, FB 2212	740 m	0 ... > 300 Ohm
LB 2113, FB 2213	680 m	0 ... > 300 Ohm
LB 2116, FB 2216	1000 m	0 ... > 300 Ohm
LB 2117, FB 2217	> 1 km	0 ... > 300 Ohm
LB 6110, FB 6210	740 m	0 ... > 300 Ohm
LB 6111, FB 6211	740 m	0 ... > 300 Ohm
LB 6112, FB 6212	> 1 km	0 ... > 300 Ohm
LB 6113, FB 6213	880 m	0 ... > 300 Ohm
LB 6114, FB 6214	880 m	0 ... > 300 Ohm
LB 6116, FB 6216	1000 m	0 ... > 300 Ohm
LB 6117, FB 6217	> 1 km	0 ... > 300 Ohm
LB 7104, FB 7204	> 1 km	0 ... > 300 Ohm

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		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series 630: Piezotronic 8V (22mW Version)</u>				
	LB 2104, FB 2204	> 1 km		0 ... 80 Ohm
	LB 2116, FB 2216	1000 m		0 ... 42 Ohm
	LB 2117, FB 2217	> 1 km		0 ... 169 Ohm
	LB 6112, FB 6212	> 1 km		0 ... 115 Ohm
	LB 6116, FB 6216	1000 m		0 ... 42 Ohm
	LB 6117, FB 6217	> 1 km		0 ... 169 Ohm
<u>Series IS &amp; NIFW</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm

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- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
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		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series IS &amp; NIFW</u>				
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6115, FB 6215	235 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm
<u>Series ISMR (Groups A-D)</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm

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		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series ISMR (Groups A-D)</u>				
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
<u>Series LI WSLI</u>				
	LB 2102, FB 2202		> 1 km	0 ... 149 Ohm
	LB 2103, FB 2203	740 m		0 ... 10 Ohm (Tu=50°C)
	LB 2104, FB 2204	> 1 km		0 ... 77 Ohm
	LB 2105, FB 2205	950 m		0 ... 32 Ohm
	LB 2112, FB 2212	740 m		0 ... 71 Ohm
	LB 2116, FB 2216	1000 m		0 ... 70 Ohm
	LB 2117, FB 2217	> 1 km		0 ... 10 Ohm (Tu=45°C)
	LB 6110, FB 6210	740 m		0 ... 10 Ohm (Tu=55°C)
	LB 6111, FB 6211	740 m		0 ... 10 Ohm (Tu=55°C)
	LB 6113, FB 6213	880 m		0 ... 38 Ohm
	LB 6115, FB 6215	235 m		0 ... 38 Ohm
	LB 6116, FB 6216	1000 m		0 ... 70 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... 199 Ohm

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		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series LI WSLI</u>				
	LB 6117, FB 6217	> 1 km		0 ... 10 Ohm (Tu=45°C)
	LB 6117, FB 6217_2in1	335 m		0 ... 59 Ohm
<u>Series LISC</u>				
	LB 2102, FB 2202		> 1 km	0 ... 101 Ohm
	LB 2104, FB 2204	> 1 km		0 ... 36 Ohm
	LB 2112, FB 2212	740 m		0 ... 18 Ohm
	LB 6115, FB 6215	235 m		0 ... 16 Ohm
	LB 6116, FB 6216	1000 m		0 ... 25 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... 154 Ohm
<u>Series NFIS WSNFIS</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm

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		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series NFIS WSNFIS</u>				
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6115, FB 6215	235 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series WPIS WSIS</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6115, FB 6215	235 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>ASCO</b>				
<u>Series WPIS WSIS</u>				
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm
<b>ATOS</b>				
<u>OW-18/H</u>				
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2112, FB 2212		740 m	0 ... > 300 Ohm
	LB 6112, FB 6212		> 1 km	0 ... > 300 Ohm
	LB 6115, FB 6215	235 m		0 ... > 300 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve



## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>BC</b>				
<u>BC-x.8.12.25</u>				
	LB 2117, FB 2217	> 1 km		0 ... 28 Ohm
	LB 6117, FB 6217	> 1 km		0 ... 28 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... 93 Ohm
<u>BC-x.8.12.30</u>				
	LB 2117, FB 2217	> 1 km		0 ... 10 Ohm (Tu=55°C)
	LB 6117, FB 6217	> 1 km		0 ... 10 Ohm (Tu=55°C)
	LB 6117, FB 6217_2in1	335 m		0 ... 67 Ohm
<u>BC-x.8.12.35</u>				
	LB 6117, FB 6217_2in1	335 m		0 ... 48 Ohm
<u>BC-x.8.12.40</u>				
	LB 6117, FB 6217_2in1	335 m		0 ... 34 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>BC</b>				
<u>BC-x.8.12.45</u>	LB 6117, FB 6217_2in1	335 m		0 ... 23 Ohm
<u>BC-x.8.12.50</u>	LB 6117, FB 6217_2in1	335 m		0 ... 14 Ohm
<u>BC-x.8.12.55</u>	LB 6117, FB 6217_2in1	335 m		0 ... 10 Ohm (Tu=55°C)
<u>BC-x.8.12.60</u>	LB 6117, FB 6217_2in1	335 m		0 ... 10 Ohm (Tu=45°C)
<b>Buerkert</b>				
<u>Spule AC 10 EEXi für Ventile:0590EEXi, 601</u>	LB 2101, FB 2201		> 1 km	0 ... 58 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Buerkert</b>				
<u>Spule AC 10 EEXi für Ventile:0590EEXi, 601</u>				
	LB 2103, FB 2203	740 m		0 ... 80 Ohm
	LB 2105, FB 2205	950 m		0 ... 110 Ohm
	LB 2112, FB 2212	740 m		0 ... 154 Ohm
	LB 2116, FB 2216	1000 m		0 ... 149 Ohm
	LB 6110, FB 6210	740 m		0 ... 87 Ohm
	LB 6111, FB 6211	740 m		0 ... 87 Ohm
	LB 6113, FB 6213	880 m		0 ... 117 Ohm
	LB 6114, FB 6214	880 m		0 ... 52 Ohm
	LB 6116, FB 6216	1000 m		0 ... 149 Ohm
<u>Spule AC21 EEXi für Ventile:0450EEXi, 5470</u>				
	LB 2101, FB 2201		> 1 km	0 ... 84 Ohm
	LB 2103, FB 2203	740 m		0 ... 108 Ohm
	LB 2105, FB 2205	950 m		0 ... 136 Ohm
	LB 2113, FB 2213	680 m		0 ... 52 Ohm
	LB 2116, FB 2216	1000 m		0 ... 175 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Buerkert</b>				
<u>Spule AC21 EEXi für Ventile:0450EEXi, 5470</u>				
	LB 6110, FB 6210	740 m		0 ... 115 Ohm
	LB 6114, FB 6214	880 m		0 ... 78 Ohm
	LB 6116, FB 6216	1000 m		0 ... 175 Ohm
<u>Spule G1 642735 EEXi;6104 EEXi, 6510 EEXi</u>				
	LB 2101, FB 2201		> 1 km	0 ... 73 Ohm
	LB 2103, FB 2203	740 m		0 ... 97 Ohm
	LB 2104, FB 2204	> 1 km		0 ... 168 Ohm
	LB 2105, FB 2205	950 m		0 ... 125 Ohm
	LB 2112, FB 2212	740 m		0 ... 172 Ohm
	LB 2113, FB 2213	680 m		0 ... 41 Ohm
	LB 2116, FB 2216	1000 m		0 ... 164 Ohm
	LB 2117, FB 2217	> 1 km		0 ... 67 Ohm
	LB 6110, FB 6210	740 m		0 ... 104 Ohm
	LB 6111, FB 6211	740 m		0 ... 104 Ohm
	LB 6112, FB 6212	> 1 km		0 ... 30 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Buerkert</b>				
<u>Spule G1 642735 EExi;6104 EExi, 6510 EExi</u>				
	LB 6113, FB 6213	880 m		0 ... 132 Ohm
	LB 6114, FB 6214	880 m		0 ... 67 Ohm
	LB 6116, FB 6216	1000 m		0 ... 164 Ohm
	LB 6117, FB 6217	> 1 km		0 ... 67 Ohm
<b>FAS</b>				
<u>Microsol 12V T4 85</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>FAS</b>				
<u>Microsol 12V T4 85</u>				
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6115, FB 6215	235 m		0 ... > 300 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm
<u>Microsol 12V T5 50</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm

1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.

In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances

2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>FAS</b>				
<u>Microsol 12V T5 50</u>				
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6115, FB 6215	235 m		0 ... > 300 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm
<u>Microsol 24V T4 110</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm

1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.

In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances

2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations



Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### FAS

#### Microsol 24V T4 110

Suitable Driver	Max Cable Length 1)	Lead Resistance 2)
LB 2102, FB 2202	> 1 km	0 ... > 300 Ohm
LB 2103, FB 2203	740 m	0 ... > 300 Ohm
LB 2104, FB 2204	> 1 km	0 ... > 300 Ohm
LB 2105, FB 2205	950 m	0 ... > 300 Ohm
LB 2112, FB 2212	740 m	0 ... > 300 Ohm
LB 2113, FB 2213	680 m	0 ... > 300 Ohm
LB 2116, FB 2216	1000 m	0 ... > 300 Ohm
LB 2117, FB 2217	> 1 km	0 ... > 300 Ohm
LB 6110, FB 6210	740 m	0 ... > 300 Ohm
LB 6111, FB 6211	740 m	0 ... > 300 Ohm
LB 6112, FB 6212	> 1 km	0 ... > 300 Ohm
LB 6113, FB 6213	880 m	0 ... > 300 Ohm
LB 6114, FB 6214	880 m	0 ... > 300 Ohm
LB 6115, FB 6215	235 m	0 ... > 300 Ohm
LB 6116, FB 6216	1000 m	0 ... > 300 Ohm
LB 6116, FB 6216_2in1	760 m	0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve



## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>FAS</b>				
<u>Microsol 24V T4 110</u>				
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm
<u>Microsol 24V T5 75</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>FAS</b>				
<u>Microsol 24V T5 75</u>				
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6115, FB 6215	235 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm
<u>Microsol 24V T6 60</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations



Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### FAS

#### Microsol 24V T6 60

LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
LB 6110, FB 6210	740 m		0 ... > 300 Ohm
LB 6111, FB 6211	740 m		0 ... > 300 Ohm
LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
LB 6113, FB 6213	880 m		0 ... > 300 Ohm
LB 6114, FB 6214	880 m		0 ... > 300 Ohm
LB 6115, FB 6215	235 m		0 ... > 300 Ohm
LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Festo</b>				
<u>CPV10-EX-VI</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Festo</b>				
<u>MFVH* (Spule: GBXE 022*)</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6115, FB 6215	235 m		0 ... > 300 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Festo</b>				
<u>MFVH* (Spule: GBXE 022*)</u>				
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm
<b>Herion</b>				
<u>2010...2014</u>				
	LB 6115, FB 6215	235 m		0 ... 57 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... 74 Ohm
<u>2015...2016</u>				
	LB 2112, FB 2212	740 m		0 ... 10 Ohm (Tu=55°C)
	LB 2116, FB 2216	1000 m		0 ... 10 Ohm (Tu=55°C)
	LB 6116, FB 6216	1000 m		0 ... 10 Ohm (Tu=55°C)
<u>2050</u>				
	LB 2101, FB 2201		> 1 km	0 ... 109 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cabel must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations



Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### Herion

#### 2050

LB 2102, FB 2202		> 1 km	0 ... 275 Ohm
LB 2103, FB 2203	740 m		0 ... 125 Ohm
LB 2104, FB 2204	> 1 km		0 ... 204 Ohm
LB 2105, FB 2205	950 m		0 ... 158 Ohm
LB 2112, FB 2212	740 m		0 ... 195 Ohm
LB 2113, FB 2213	680 m		0 ... 58 Ohm
LB 2116, FB 2216	1000 m		0 ... 197 Ohm
LB 2117, FB 2217	> 1 km		0 ... 127 Ohm
LB 6110, FB 6210	740 m		0 ... 130 Ohm
LB 6111, FB 6211	740 m		0 ... 130 Ohm
LB 6112, FB 6212	> 1 km		0 ... 88 Ohm
LB 6113, FB 6213	880 m		0 ... 165 Ohm
LB 6114, FB 6214	880 m		0 ... 100 Ohm
LB 6115, FB 6215	235 m		0 ... 170 Ohm
LB 6116, FB 6216	1000 m		0 ... 197 Ohm
LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Herion</b>				
<u>2050</u>				
	LB 6117, FB 6217	> 1 km		0 ... 127 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... 192 Ohm
<u>2051</u>				
	LB 2101, FB 2201		> 1 km	0 ... 132 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... 170 Ohm
	LB 2104, FB 2204	> 1 km		0 ... 227 Ohm
	LB 2105, FB 2205	950 m		0 ... 190 Ohm
	LB 2112, FB 2212	740 m		0 ... 255 Ohm
	LB 2113, FB 2213	680 m		0 ... 134 Ohm
	LB 2116, FB 2216	1000 m		0 ... 230 Ohm
	LB 2117, FB 2217	> 1 km		0 ... 86 Ohm
	LB 6110, FB 6210	740 m		0 ... 181 Ohm
	LB 6111, FB 6211	740 m		0 ... 181 Ohm
	LB 6112, FB 6212	> 1 km		0 ... 53 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve



## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Herion</b>				
<u>2051</u>				
	LB 6113, FB 6213	880 m		0 ... 198 Ohm
	LB 6114, FB 6214	880 m		0 ... 133 Ohm
	LB 6115, FB 6215	235 m		0 ... 127 Ohm
	LB 6116, FB 6216	1000 m		0 ... 230 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... 86 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... 152 Ohm
<u>2052</u>				
	LB 2101, FB 2201		> 1 km	0 ... 97 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... 169 Ohm
	LB 2104, FB 2204	> 1 km		0 ... 192 Ohm
	LB 2105, FB 2205	950 m		0 ... 169 Ohm
	LB 2112, FB 2212	740 m		0 ... 277 Ohm
	LB 2113, FB 2213	680 m		0 ... 179 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Herion</b>				
<u>2052</u>				
	LB 2116, FB 2216	1000 m		0 ... 213 Ohm
	LB 2117, FB 2217	> 1 km		0 ... 10 Ohm (Tu=45°C)
	LB 6110, FB 6210	740 m		0 ... 189 Ohm
	LB 6111, FB 6211	740 m		0 ... 189 Ohm
	LB 6113, FB 6213	880 m		0 ... 181 Ohm
	LB 6114, FB 6214	880 m		0 ... 116 Ohm
	LB 6115, FB 6215	235 m		0 ... 10 Ohm (Tu=55°C)
	LB 6116, FB 6216	1000 m		0 ... 213 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... 10 Ohm (Tu=45°C)
	LB 6117, FB 6217_2in1	335 m		0 ... 22 Ohm
	LB 7104, FB 7204	> 1 km		0 ... 99 Ohm
<u>2053</u>				
	LB 2102, FB 2202		> 1 km	0 ... 175 Ohm
	LB 2103, FB 2203	740 m		0 ... 25 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Herion</b>				
<u>2053</u>				
	LB 2104, FB 2204	> 1 km		0 ... 11 Ohm
	LB 2105, FB 2205	950 m		0 ... 10 Ohm (Tu=55°C)
	LB 2112, FB 2212	740 m		0 ... 156 Ohm
	LB 2113, FB 2213	680 m		0 ... 83 Ohm
	LB 2116, FB 2216	1000 m		0 ... 50 Ohm
	LB 6110, FB 6210	740 m		0 ... 53 Ohm
	LB 6111, FB 6211	740 m		0 ... 53 Ohm
	LB 6113, FB 6213	880 m		0 ... 18 Ohm
	LB 6114, FB 6214	880 m		0 ... 10 Ohm (Tu=50°C)
	LB 6116, FB 6216	1000 m		0 ... 50 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... 179 Ohm
	LB 7104, FB 7204	> 1 km		0 ... 10 Ohm (Tu=45°C)
<u>2080/2082</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Herion</b>				
<u>2080/2082</u>				
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>2081/2082</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm

1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.

In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances

2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Herion</b>				
<u>2081/2082</u>				
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>2084</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Herion</b>				
<u>2084</u>				
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>3039</u>				
	LB 6116, FB 6216	1000 m		0 ... 10 Ohm (Tu=45°C)

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Hoerbiger</b>				
<u>P8 381-RF-C</u>				
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6108C, FB 6208C			0 ... > 300 Ohm
<u>PN61</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6108C, FB 6208C			0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### Hoerbiger

#### PN61

LB 6110, FB 6210	740 m		0 ... > 300 Ohm
LB 6111, FB 6211	740 m		0 ... > 300 Ohm
LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
LB 6113, FB 6213	880 m		0 ... > 300 Ohm
LB 6114, FB 6214	880 m		0 ... > 300 Ohm
LB 6115, FB 6215	235 m		0 ... > 300 Ohm
LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
LB 6116, FB 6216_2in1		760 m	0 ... > 300 Ohm
LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm
LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm

#### PN65

LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
LB 2102, FB 2202		> 1 km	0 ... > 300 Ohm
LB 2103, FB 2203	740 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve



## Selection table: Solenoid driver/valve combinations



Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### Hoerbiger

#### PN65

LB 2104, FB 2204	> 1 km	0 ... > 300 Ohm
LB 2105, FB 2205	950 m	0 ... > 300 Ohm
LB 2112, FB 2212	740 m	0 ... > 300 Ohm
LB 2113, FB 2213	680 m	0 ... > 300 Ohm
LB 2116, FB 2216	1000 m	0 ... > 300 Ohm
LB 2117, FB 2217	> 1 km	0 ... > 300 Ohm
LB 6108A, FB 6208B		0 ... > 300 Ohm
LB 6108C, FB 6208C		0 ... > 300 Ohm
LB 6110, FB 6210	740 m	0 ... > 300 Ohm
LB 6111, FB 6211	740 m	0 ... > 300 Ohm
LB 6112, FB 6212	> 1 km	0 ... > 300 Ohm
LB 6113, FB 6213	880 m	0 ... > 300 Ohm
LB 6114, FB 6214	880 m	0 ... > 300 Ohm
LB 6115, FB 6215	235 m	0 ... > 300 Ohm
LB 6116, FB 6216	1000 m	0 ... > 300 Ohm
LB 6116, FB 6216_2in1	760 m	0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Hoerbiger</b>				
<u>PN65</u>				
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<b>Honeywell-Lucifer</b>				
<u>Spule mit 295 Ohm</u>				
	LB 2101, FB 2201		> 1 km	0 ... 30 Ohm
	LB 2103, FB 2203	740 m		0 ... 54 Ohm
	LB 2105, FB 2205	950 m		0 ... 82 Ohm
	LB 2112, FB 2212	740 m		0 ... 130 Ohm
	LB 2116, FB 2216	1000 m		0 ... 121 Ohm
	LB 6110, FB 6210	740 m		0 ... 61 Ohm
	LB 6111, FB 6211	740 m		0 ... 61 Ohm
	LB 6113, FB 6213	880 m		0 ... 89 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Honeywell-Lucifer</b>				
<u>Spule mit 295 Ohm</u>				
	LB 6114, FB 6214	880 m		0 ... 24 Ohm
	LB 6116, FB 6216	1000 m		0 ... 121 Ohm
<u>Spule mit 340 Ohm</u>				
	LB 2112, FB 2212	740 m		0 ... 10 Ohm (Tu=50°C)
	LB 6116, FB 6216	1000 m		0 ... 10 Ohm (Tu=55°C)
<b>KVAutomation</b>				
<u>KVEX131</u>				
	LB 2101, FB 2201		> 1 km	0 ... 28 Ohm
	LB 2102, FB 2202		> 1 km	0 ... 190 Ohm
	LB 2103, FB 2203	740 m		0 ... 40 Ohm
	LB 2104, FB 2204	> 1 km		0 ... 123 Ohm
	LB 2105, FB 2205	950 m		0 ... 76 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations



Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### KVAutomation

#### KVEX131

LB 2112, FB 2212	740 m		0 ... 108 Ohm
LB 2117, FB 2217	> 1 km		0 ... 55 Ohm
LB 6110, FB 6210	740 m		0 ... 44 Ohm
LB 6111, FB 6211	740 m		0 ... 44 Ohm
LB 6112, FB 6212	> 1 km		0 ... 15 Ohm
LB 6113, FB 6213	880 m		0 ... 81 Ohm
LB 6114, FB 6214	880 m		0 ... 16 Ohm
LB 6115, FB 6215	235 m		0 ... 99 Ohm
LB 6116, FB 6216	1000 m		0 ... 113 Ohm
LB 6116, FB 6216_2in1		760 m	0 ... 242 Ohm
LB 6117, FB 6217	> 1 km		0 ... 55 Ohm
LB 6117, FB 6217_2in1	335 m		0 ... 120 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Norgren</b>				
<u>2003</u>				
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... 110 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... 210 Ohm
	LB 6114, FB 6214	880 m		0 ... 145 Ohm
<u>24010</u>				
	LB 2103, FB 2203	740 m		0 ... 115 Ohm
	LB 2105, FB 2205	950 m		0 ... 110 Ohm
	LB 2112, FB 2212	740 m		0 ... 178 Ohm
	LB 6110, FB 6210	740 m		0 ... 118 Ohm
	LB 6111, FB 6211	740 m		0 ... 118 Ohm
	LB 6113, FB 6213	880 m		0 ... 160 Ohm
	LB 6114, FB 6214	880 m		0 ... 95 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations



Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### Norgren

#### Spule 06129(2086)

Suitable Driver	Max Cable Length 1)	Lead Resistance 2)
LB 2101, FB 2201	> 1 km	0 ... > 300 Ohm
LB 2103, FB 2203	740 m	0 ... > 300 Ohm
LB 2104, FB 2204	> 1 km	0 ... > 300 Ohm
LB 2105, FB 2205	950 m	0 ... > 300 Ohm
LB 2112, FB 2212	740 m	0 ... > 300 Ohm
LB 2113, FB 2213	680 m	0 ... > 300 Ohm
LB 2116, FB 2216	1000 m	0 ... > 300 Ohm
LB 6108A, FB 6208B		0 ... > 300 Ohm
LB 6108C, FB 6208C		0 ... > 300 Ohm
LB 6110, FB 6210	740 m	0 ... > 300 Ohm
LB 6111, FB 6211	740 m	0 ... > 300 Ohm
LB 6112, FB 6212	> 1 km	0 ... > 300 Ohm
LB 6113, FB 6213	880 m	0 ... > 300 Ohm
LB 6114, FB 6214	880 m	0 ... > 300 Ohm
LB 6116, FB 6216	1000 m	0 ... > 300 Ohm
LB 7104, FB 7204	> 1 km	0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Parker</b>				
<u>482660</u>				
	LB 2102, FB 2202		> 1 km	0 ... 212 Ohm
	LB 2103, FB 2203	740 m		0 ... 62 Ohm
	LB 2105, FB 2205	950 m		0 ... 106 Ohm
	LB 2112, FB 2212	740 m		0 ... 122 Ohm
	LB 6110, FB 6210	740 m		0 ... 63 Ohm
	LB 6111, FB 6211	740 m		0 ... 63 Ohm
	LB 6113, FB 6213	880 m		0 ... 110 Ohm
	LB 6114, FB 6214	880 m		0 ... 45 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... 271 Ohm
<u>483330,01</u>				
	LB 2103, FB 2203	740 m		0 ... 62 Ohm
	LB 2105, FB 2205	950 m		0 ... 106 Ohm
	LB 2112, FB 2212	740 m		0 ... 122 Ohm
	LB 6110, FB 6210	740 m		0 ... 63 Ohm
	LB 6111, FB 6211	740 m		0 ... 63 Ohm

1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.

In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances

2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Parker</b>				
<u>483330,01</u>				
	LB 6113, FB 6213	880 m		0 ... 110 Ohm
	LB 6114, FB 6214	880 m		0 ... 45 Ohm
<u>483580.01/03_483960.01/03</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
<u>488650.01/03_488660.01/03_488670.01/03</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve



## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Parker</b>				
<u>488650.01/03_488660.01/03_488670.01/03</u>				
	LB 2103, FB 2203		740 m	0 ... > 300 Ohm
	LB 2105, FB 2205		950 m	0 ... > 300 Ohm
	LB 2112, FB 2212		740 m	0 ... > 300 Ohm
	LB 2116, FB 2216		1000 m	0 ... > 300 Ohm
	LB 6110, FB 6210		740 m	0 ... > 300 Ohm
	LB 6111, FB 6211		740 m	0 ... > 300 Ohm
	LB 6113, FB 6213		880 m	0 ... > 300 Ohm
	LB 6114, FB 6214		880 m	0 ... > 300 Ohm
	LB 6116, FB 6216		1000 m	0 ... > 300 Ohm
<u>490860</u>				
	LB 2103, FB 2203		740 m	0 ... 62 Ohm
	LB 2105, FB 2205		950 m	0 ... 106 Ohm
	LB 2112, FB 2212		740 m	0 ... 122 Ohm
	LB 6110, FB 6210		740 m	0 ... 63 Ohm
	LB 6111, FB 6211		740 m	0 ... 63 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Parker</b>				
<u>490860</u>				
	LB 6113, FB 6213	880 m		0 ... 110 Ohm
	LB 6114, FB 6214	880 m		0 ... 45 Ohm
<u>490880_493997</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
<u>490885_490890_490895</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Parker</b>				
<u>492965.01/02</u>				
	LB 2101, FB 2201		> 1 km	0 ... 285 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... 295 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
<u>495910</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cabel must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Parker</b>				
<u>495910</u>				
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>495910N7</u>				
	LB 2101, FB 2201		> 1 km	0 ... 76 Ohm
	LB 2103, FB 2203	740 m		0 ... 118 Ohm
	LB 2105, FB 2205	950 m		0 ... 136 Ohm
	LB 2112, FB 2212	740 m		0 ... 206 Ohm
	LB 2116, FB 2216	1000 m		0 ... 177 Ohm
	LB 6110, FB 6210	740 m		0 ... 130 Ohm
	LB 6111, FB 6211	740 m		0 ... 130 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Parker</b>				
<u>495910N7</u>				
	LB 6113, FB 6213	880 m		0 ... 145 Ohm
	LB 6114, FB 6214	880 m		0 ... 80 Ohm
	LB 6116, FB 6216	1000 m		0 ... 177 Ohm
<b>RGS</b>				
<u>Spule EP100/ia</u>				
	LB 2101, FB 2201		> 1 km	0 ... 10 Ohm (Tu=50°C)
	LB 2102, FB 2202		> 1 km	0 ... 170 Ohm
	LB 2103, FB 2203	740 m		0 ... 20 Ohm
	LB 2104, FB 2204	> 1 km		0 ... 98 Ohm
	LB 2105, FB 2205	950 m		0 ... 52 Ohm
	LB 2112, FB 2212	740 m		0 ... 92 Ohm
	LB 2116, FB 2216	1000 m		0 ... 91 Ohm
	LB 2117, FB 2217	> 1 km		0 ... 15 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>RGS</b>				
<u>Spule EP100/ia</u>				
	LB 6110, FB 6210	740 m		0 ... 26 Ohm
	LB 6111, FB 6211	740 m		0 ... 26 Ohm
	LB 6113, FB 6213	880 m		0 ... 59 Ohm
	LB 6114, FB 6214	880 m		0 ... 10 Ohm (Tu=45°C)
	LB 6115, FB 6215	235 m		0 ... 58 Ohm
	LB 6116, FB 6216	1000 m		0 ... 91 Ohm
	LB 6116, FB 6216_2in1		760 m	0 ... 220 Ohm
	LB 6117, FB 6217	> 1 km		0 ... 15 Ohm
	LB 6117, FB 6217_2in1	335 m		0 ... 80 Ohm
<b>Samson</b>				
<u>3701-11</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3701-11</u>				
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>3701-12</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3701-12</u>				
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>3701-13</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... 10 Ohm (Tu=45°C)

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve



## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3701-13</u>				
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>3701-42</u>				
	LB 6108A, FB 6208B			0 ... 120 Ohm
<u>3766-1.2</u>				
	LB 6108A, FB 6208B			0 ... > 300 Ohm
<u>3766-1.3</u>				
	LB 6108A, FB 6208B			0 ... 10 Ohm (Tu=45°C)

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3767-1.2</u>	LB 6108A, FB 6208B			0 ... > 300 Ohm
<u>3767-1.3</u>	LB 6108A, FB 6208B			0 ... 10 Ohm (Tu=45°C)
<u>3768-122</u>	LB 6108A, FB 6208B			0 ... > 300 Ohm
<u>3768-123</u>	LB 6108A, FB 6208B			0 ... > 300 Ohm
<u>3775-13</u>	LB 2101, FB 2201			0 ... > 300 Ohm
	LB 2103, FB 2203			0 ... > 300 Ohm
	LB 2105, FB 2205			0 ... > 300 Ohm
	LB 2112, FB 2212			0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3775-13</u>				
	LB 2116, FB 2216			0 ... > 300 Ohm
	LB 6110, FB 6210			0 ... > 300 Ohm
	LB 6111, FB 6211			0 ... > 300 Ohm
	LB 6113, FB 6213			0 ... > 300 Ohm
	LB 6114, FB 6214			0 ... > 300 Ohm
	LB 6116, FB 6216			0 ... > 300 Ohm
	LB 7104, FB 7204			0 ... > 300 Ohm
<u>3962-13</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... 10 Ohm (Tu=50°C)
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3962-13</u>				
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>3962-17</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3962-17</u>				
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>3963-12</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2104, FB 2204	> 1 km		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
<u>3963-13</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm

1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.

In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances

2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3963-13</u>				
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... 10 Ohm (Tu=45°C)
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>3963-17</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature Tu, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3963-17</u>				
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>3967-1</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3967-1</u>				
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>3967-2</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6108C, FB 6208C			0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve



## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3967-2</u>				
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>3967-3</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... 264 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Samson</b>				
<u>3967-3</u>				
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<b>Seitz</b>				
<u>PV 12F73 Ci oh</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Seitz</b>				
<u>PV 12F73 Ci oh</u>				
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>PV 12F73 Xi oh</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm
	LB 2105, FB 2205	950 m		0 ... > 300 Ohm
	LB 2112, FB 2212	740 m		0 ... > 300 Ohm
	LB 2113, FB 2213	680 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Seitz</b>				
<u>PV 12F73 Xi oh</u>				
	LB 2116, FB 2216	1000 m		0 ... > 300 Ohm
	LB 2117, FB 2217	> 1 km		0 ... > 300 Ohm
	LB 6108A, FB 6208B			0 ... > 300 Ohm
	LB 6108C, FB 6208C			0 ... > 300 Ohm
	LB 6110, FB 6210	740 m		0 ... > 300 Ohm
	LB 6111, FB 6211	740 m		0 ... > 300 Ohm
	LB 6112, FB 6212	> 1 km		0 ... > 300 Ohm
	LB 6113, FB 6213	880 m		0 ... > 300 Ohm
	LB 6114, FB 6214	880 m		0 ... > 300 Ohm
	LB 6116, FB 6216	1000 m		0 ... > 300 Ohm
	LB 6117, FB 6217	> 1 km		0 ... > 300 Ohm
	LB 7104, FB 7204	> 1 km		0 ... > 300 Ohm
<u>PV 12F73 Xi oh 2</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203	740 m		0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations



Manufacturer / Valve

Suitable Driver

Max Cable Length 1)  
Exia IIC      Exia IIB

Lead Resistance 2)  
acc. to function

### Seitz

PV 12F73 Xi oh 2

LB 2105, FB 2205	950 m	0 ... > 300 Ohm
LB 2112, FB 2212	740 m	0 ... > 300 Ohm
LB 2113, FB 2213	680 m	0 ... > 300 Ohm
LB 2116, FB 2216	1000 m	0 ... > 300 Ohm
LB 2117, FB 2217	> 1 km	0 ... > 300 Ohm
LB 6108A, FB 6208B		0 ... > 300 Ohm
LB 6110, FB 6210	740 m	0 ... > 300 Ohm
LB 6111, FB 6211	740 m	0 ... > 300 Ohm
LB 6112, FB 6212	> 1 km	0 ... > 300 Ohm
LB 6113, FB 6213	880 m	0 ... > 300 Ohm
LB 6114, FB 6214	880 m	0 ... > 300 Ohm
LB 6116, FB 6216	1000 m	0 ... > 300 Ohm
LB 6117, FB 6217	> 1 km	0 ... > 300 Ohm
LB 7104, FB 7204	> 1 km	0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>SMC</b>				
<u>52-SY5000</u>				
	LB 2104, FB 2204	> 1 km		0 ... 75 Ohm
	LB 2105, FB 2205	950 m		0 ... 26 Ohm
	LB 2112, FB 2212	740 m		0 ... 53 Ohm
	LB 2117, FB 2217	> 1 km		0 ... 19 Ohm
	LB 6113, FB 6213	880 m		0 ... 31 Ohm
	LB 6116, FB 6216	1000 m		0 ... 63 Ohm
	LB 6117, FB 6217	> 1 km		0 ... 19 Ohm
<u>52-SY7000</u>				
	LB 2104, FB 2204	> 1 km		0 ... 75 Ohm
	LB 2105, FB 2205	950 m		0 ... 26 Ohm
	LB 2112, FB 2212	740 m		0 ... 53 Ohm
	LB 2117, FB 2217	> 1 km		0 ... 19 Ohm
	LB 6113, FB 6213	880 m		0 ... 31 Ohm
	LB 6116, FB 6216	1000 m		0 ... 63 Ohm
	LB 6117, FB 6217	> 1 km		0 ... 19 Ohm

1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.

In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances

2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>SMC</b>				
<u>52-SY9000</u>				
	LB 2104, FB 2204		> 1 km	0 ... 75 Ohm
	LB 2105, FB 2205		950 m	0 ... 26 Ohm
	LB 2112, FB 2212		740 m	0 ... 53 Ohm
	LB 2117, FB 2217		> 1 km	0 ... 19 Ohm
	LB 6113, FB 6213		880 m	0 ... 31 Ohm
	LB 6116, FB 6216		1000 m	0 ... 63 Ohm
	LB 6117, FB 6217		> 1 km	0 ... 19 Ohm
<b>Telektron</b>				
<u>Spule L (12 ... 24 V)</u>				
	LB 2101, FB 2201		> 1 km	0 ... > 300 Ohm
	LB 2103, FB 2203		740 m	0 ... > 300 Ohm
	LB 2104, FB 2204		> 1 km	0 ... > 300 Ohm
	LB 2105, FB 2205		950 m	0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve

## Selection table: Solenoid driver/valve combinations

Manufacturer / Valve	Suitable Driver	Max Cable Length 1)		Lead Resistance 2) acc. to function
		Exia IIC	Exia IIB	
<b>Telektron</b>				
<u>Spule L (12 ... 24 V)</u>				
	LB 2112, FB 2212		740 m	0 ... > 300 Ohm
	LB 2113, FB 2213		680 m	0 ... > 300 Ohm
	LB 2116, FB 2216		1000 m	0 ... > 300 Ohm
	LB 6110, FB 6210		740 m	0 ... > 300 Ohm
	LB 6111, FB 6211		740 m	0 ... > 300 Ohm
	LB 6112, FB 6212		> 1 km	0 ... 240 Ohm
	LB 6113, FB 6213		880 m	0 ... > 300 Ohm
	LB 6114, FB 6214		880 m	0 ... > 300 Ohm
	LB 6116, FB 6216		1000 m	0 ... > 300 Ohm
	LB 7104, FB 7204		> 1 km	0 ... > 300 Ohm
<b>Wandfluh</b>				
<u>ISI 4401-03</u>				
	LB 2113, FB 2213		680 m	0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature T<sub>u</sub>, these relate to the maximum ambient temperature of the valve



## Selection table: Solenoid driver/valve combinations



*Manufacturer / Valve*

*Suitable Driver*

*Max Cable Length 1)*  
*Exia IIC      Exia IIB*

*Lead Resistance 2)*  
*acc. to function*

### **Wandfluh**

ISI 4401-03

LB 6117, FB 6217\_2in1

335 m

0 ... > 300 Ohm

- 1) The average cabling values were used in the determining the max. cable length: Capacitance: 110nF/km; Inductance: 1mH/km.  
In accordance with EN 60079-14 the exact characteristics of the cable must be considered when configuring the installation. Thus it is necessary to compare the given cable characteristics with the limiting values of the solenoid driver. Connection is considered without the presence of concentrated external inductances and capacitances
- 2) Cable resistance (out and return) as a function of conductor cross-section area: 0,6 mm<sup>2</sup> : 59 Ohm/km; 1.0 mm<sup>2</sup>: 35 Ohm/km; 1.5 mm<sup>2</sup>: 24 Ohm/km  
If there are restrictions with respect to the ambient temperature  $T_u$ , these relate to the maximum ambient temperature of the valve