





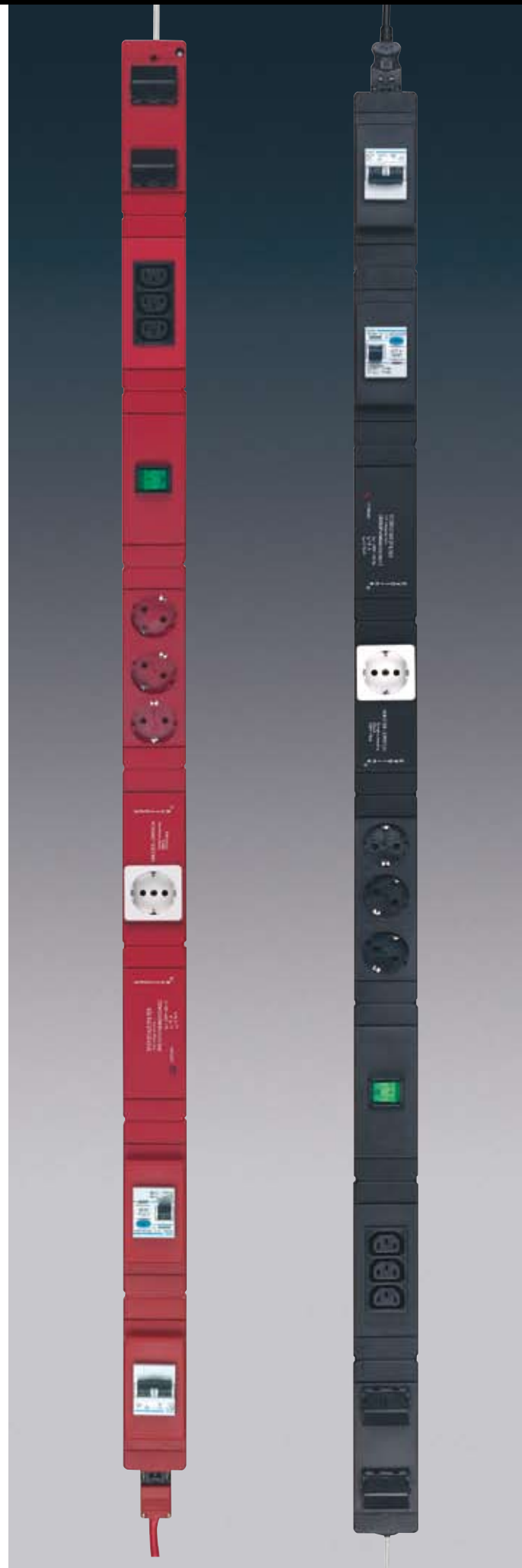
The Principle

Modules according to requirements.

Simple to install.

System is safety:

- Self-extinguishing plastics
- Halogenfree
- Contacts silver-plated
- Welded leads
- Protected contacts
- Tested and uniquely coded
- Protection against circuit interference
- Protection against lightning strikes
- Used in hundreds of ways





Office-Applications

Switch, protect, order at the workplace.
Separate, safeguard,
minimize electrical risks.

Your insurance against:

- Fire
- Electric shock
- Lightning
- Overvoltage
- Short circuit
- Network failure
- Loss of data
- High power consumption

From professionals - for professionals.



3 steps to get your individual EVoline® Product

1

Choice of
EVoline®
product series

**EVoline® Port
Individual**



Choose:
Version
length of cable connection
Hole saw see page 121
Fastening / accessories

Page 79 - 82

**EVoline® Dock
Individual**



Choose:
Version
length of cable connection
Fastening / accessories

Page 86

**EVoline® V-Dock
Individual**



Choose:
Version
length of cable connection

Page 87

**EVoline® SubDesk
Individual**



Choose:
Version
length of cable connection

Page 89

**EVoline®
Socket Module**



Choose:
country specific insert
colour

Page 93 - 98

**EVoline®
Multimedia Module**



Choose:
specification
length of cable connection

Page 100 - 104

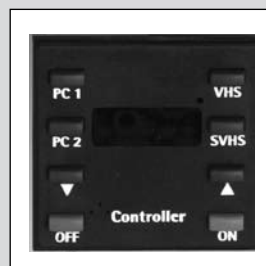
**EVoline®
Data-Network Module**



Choose:
specification
length of cable connection

Page 105 - 118

**EVoline®
Intelligence Module**



Choose:
specification
length of cable connection

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Pursuant to your order you will receive a product drawing, which you release with your signature.
This procedure avoids wrong orders.

3

Your individual
EVoline®
Product



Your orders are subject to our General Terms of Sales. Refer to www.schulte.com

Subject to technical changes.

The goods are not marked with an EAN-Code – please order specifically if needed.

Standard products of serie
are shown on pages :

EVoline® Port,
75 - 78

EVoline® Dock,
83 - 85

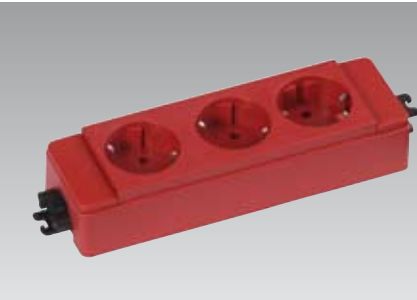
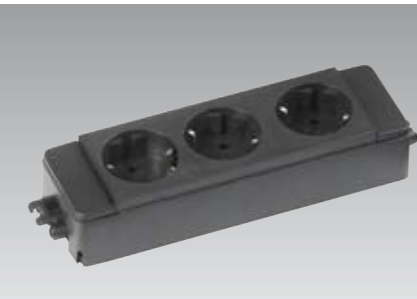
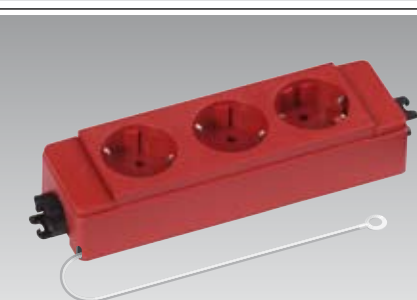
EVoline® V-Dock
87

Article	Type	EAN / Comment	Picture
EVoline® treble socket rail Type 900 Germany, Austria 2) with plug and socket black			
specification ST 18	900.10.011	4 044657 000019	
specification GST 18	900.10.015	4 044657 001092	
EVoline® treble socket rail Type 900 Germany, Austria 2) with plug and socket red, for protected circuit			
specification ST 18	900.10.012	4 044657 000026	
specification GST 18	900.10.016	4 044657 001108	
EVoline® treble socket rail Type 900 Germany, Austria 2) with plug and socket black, for glue-on application			
specification ST 18	902.10.011	4 044657 000033	
specification GST 18	902.10.015	4 044657 001115	
EVoline® treble socket rail Type 900 Germany, Austria 2) with plug and socket red, for protected circuit for glue-on application			
specification ST 18	902.10.012	4 044657 000040	
specification GST 18	902.10.016	4 044657 001122	
EVoline® treble socket rail Typ 900 Germany, Austria 2) with plug and socket black, with 200 mm earth lead			
specification ST 18	900.10.031	4 044657 000057	
specification GST 18	900.10.035	4 044657 001139	
EVoline® treble socket rail Typ 900 Germany, Austria 2) with plug and socket red, for protected circuit with 200 mm earth lead			
specification ST 18	900.10.032	4 044657 000064	
specification GST 18	900.10.036	4 044657 001146	

to connect socket rail Type 900 with other EVoline® Express modules,
 a connecting cable with the order no. 900.70.xxx is required, see accessories.

2) Table of countries on Page 152



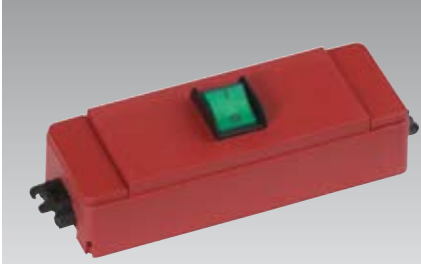
Article	Type	EAN / Comment	Picture
EVoline® Express treble socket rail Type 901 Germany, Austria 2) with plug and socket Attachment: Housing screwable (screws not in the scope of supply) black specification ST 18	901.10.011	 4 044657 000071	
specification GST 18	901.10.015	 4 044657 001153	
EVoline® Express treble socket rail Type 901 Germany, Austria 2) with plug and socket Attachment: Housing screwable (screws not in the scope of supply) red, for protected circuit specification ST 18	901.10.012	 4 044657 000088	
specification GST 18	901.10.016	 4 044657 001160	
EVoline® treble socket rail Typ 901 Germany, Austria 2) with plug and socket black, for glue-on application	904.10.011	 4 044657 000095	
specification GST 18	904.10.015	 4 044657 001177	
EVoline® Express treble socket rail Typ 901 Germany, Austria 2) with plug and socket red, for protected circuit for glue-on application	904.10.012	 4 044657 000101	
specification GST 18	904.10.016	 4 044657 001184	
EVoline® Express treble socket rail Type 901 Germany, Austria 2) with plug and socket with 200 mm earth lead Attachment: Housing screwable (screws not in the scope of supply) black specification ST 18	901.10.031	 4 044657 000118	
specification GST 18	901.10.035	 4 044657 001191	
EVoline® Express treble socket rail Type 901 Germany, Austria 2) with plug and socket with 200 mm earth lead Attachment: Housing screwable (screws not in the scope of supply) red, for protected circuit specification ST 18	901.10.032	 4 044657 000125	
specification GST 18	901.10.036	 4 044657 001207	

2) Table of countries on Page 152



Article	Type	EAN / Comment	Picture
EVoline® Express Interference Filter with integrated overvoltage protection UN = 230V~/50 Hz IN = 16A iSN = 2,5 kA with plug and socket black			
specification ST 18	920.11.021	 4 044657 001245	
specification GST 18	920.11.025	 4 044657 001535	
EVoline® Express Interference Filter with integrated overvoltage protection UN = 230V~/50 Hz IN = 16A iSN = 2,5 kA with plug and socket red, for protected circuit			
specification ST 18	920.11.022	 4 044657 000255	
specification GST 18	920.11.026	 4 044657 001566	
EVoline® Express Residual Current Device switch (RCD) 25 amp Sensitivity 30mA with plug and socket black			
specification ST 18	922.11.041	 4 044657 000347	
specification GST 18	922.11.045	 4 044657 000132	
EVoline® Express Residual Current Device switch (RCD) 25 amp sensitivity 30mA with plug and socket red, for protected circuit			
specification ST 18	922.11.042	 4 044657 001542	
specification GST 18	922.11.046	 4 044657 001573	

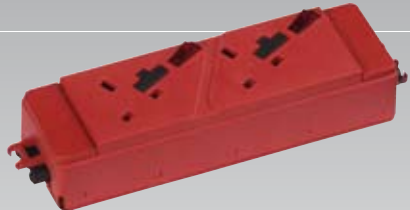
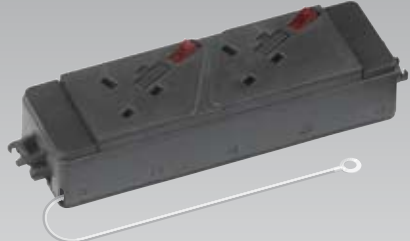
Article	Type	EAN / Comment	Picture
EVoline® Express Circuit Protection switch (MCB) 16 amp with plug and socket black			
specification ST 18	922.11.031	4 044657 000323	
specification GST 18	922.11.035	4 044657 001559	
EVoline® Express Circuit Protection switch (MCB) 16 amp with plug and socket red, for protected circuit			
specification ST 18	922.11.032	4 044657 000330	
specification GST 18	922.11.036	4 044657 001580	
EVoline® Express Master/Slave switch switching threshold: 50 mA with plug and socket black			
specification ST 18	920.11.031	4 044657 000309	
specification GST 18	920.11.035	4 044657 001597	
EVoline® Express Master/Slave switch switching threshold: 50 mA with plug and socket red, for protected circuit			
specification ST 18	920.11.032	4 044657 000316	
specification GST 18	920.11.036	4 044657 001603	
EVoline® Express treble IEC power socket, 10A with plug and socket according IEC 320 / standard specification sheet C13 black			
specification ST 18	920.11.041	4 044657 000385	
specification GST 18	920.11.045	4 044657 001610	
EVoline® Express treble IEC power socket, 10A with plug and socket according IEC 320 / standard specification sheet C13 red, for protected circuit			
specification ST 18	920.11.042	4 044657 000392	
specification GST 18	920.11.046	4 044657 001627	

Article	Type	EAN / Comment	Picture
EVoline® Express ON / OFF-switch illuminated in green with plug and socket black			
specification ST 18	920.11.091	4 044657 000361	
specification GST 18	920.11.095	4 044657 001634	
EVoline® Express ON / OFF-switch illuminated in green with plug and socket red, for protected circuit			
specification ST 18	920.11.092	4 044657 000378	
specification GST 18	920.11.096	4 044657 001641	
EVoline® Express Data/telephone socket 2 up two modules attached as kit with plug ** and grommet black			
Panduit RJ45 CAT5e screened specification ST 18**	920.10.101	4 044657 000286	
specification GST 18**	920.10.105	4 044657 001658	
Panduit RJ45 CAT6 screened specification ST 18**	920.10.241	4 044657 000149	
specification GST 18**	920.10.245	4 044657 000156	
EVoline® Express Data-telephone socket 2 up two modules attached as kit with plug ** and grommet red, for protected circuit			
Panduit RJ45 CAT5e screened specification ST 18**	920.10.102	4 044657 000293	
specification GST 18**	920.10.106	4 044657 001665	
Panduit RJ45 CAT6 screened specification ST 18**	920.10.242	4 044657 000163	
specification GST 18**	920.10.246	4 044657 000170	

** Plug connection without contact. For a mechanical connection - separated from electricity.

Article	Type	EAN / Comment	Picture
EVoline® Express Data-/telephone socket 4 up two modules attached as kit with plug ** and grommet black			
Panduit RJ45 CAT5e screened specification ST 18**	920.10.131	4 044657 001672	
specification GST 18**	920.10.135	4 044657 001689	
Panduit RJ45 CAT6 screened specification ST 18**	920.10.251	4 044657 000187	
specification GST 18**	920.10.255	4 044657 000194	
EVoline® Express Data-/telephone socket 4 up two modules attached as kit with plug ** and grommet red, for protected circuit			
Panduit RJ45 CAT5e screened specification ST 18**	920.10.132	4 044657 001696	
specification GST 18**	920.10.136	4 044657 001702	
Panduit RJ45 CAT6 screened specification ST 18**	920.10.252	4 044657 000200	
specification GST 18**	920.10.256	4 044657 002051	
EVoline® Express empty profile (assembly module) with plug and grommet black			
specification ST 18	920.10.051	4 044657 000262	
specification GST 18	920.10.055	4 044657 002068	
EVoline® Express empty profile (assembly module) with plug and grommet red, for protected circuit			
specification ST 18	920.10.052	4 044657 000279	
specification GST 18	920.10.056	4 044657 002075	

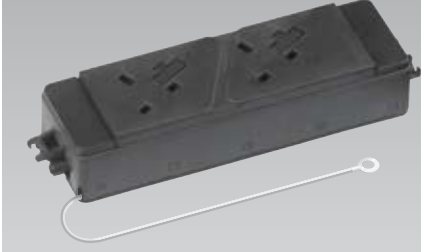
** Plug connection without contact. For a mechanical connection - separated from electricity.

Article	Type	EAN / Comment	Picture
EVoline® Express double socket rail Type 911 United Kingdom 2) with ON / OFF switches plug and socket black			
single fuses 3.15 amp and earth clamp specification ST 18	911.10.021	4 044657 001214	
specification GST 18	911.10.025	4 044657 001221	
single fuses 5 amp and earth clamp specification ST 18	912.10.021	4 044657 001290	
specification GST 18	912.10.025	4 044657 001306	
EVoline® Express double socket rail Type 911 United Kingdom 2) with ON / OFF switches plug and socket red, for protected circuits			
single fuses 3.15 amp and earth clamp specification ST 18	911.10.022	4 044657 001238	
specification GST 18	911.10.026	4 044657 001245	
single fuses 5 amp and earth clamp specification ST 18	912.10.022	4 044657 001313	
specification GST 18	912.10.026	4 044657 001320	
EVoline® Express double socket rail Type 911 United Kingdom 2) with ON / OFF switches plug and socket black			
single fuses 3.15 amp and 200 mm earth lead specification ST 18	911.10.031	4 044657 001252	
specification GST 18	911.10.035	4 044657 001269	
single fuses 5 amp and 200 mm earth lead specification ST 18	912.10.031	4 044657 001337	
specification GST 18	912.10.035	4 044657 001344	

Article	Type	EAN / Comment	Picture
EVoline® Express double socket rail Type 911 United Kingdom 2) with ON / OFF switches plug and socket red, for protected circuit			
single fuses 3.15 amp and 200 mm earth lead specification ST 18	911.10.032	4 044657 001276	
specification GST 18	911.10.036	4 044657 001283	
single fuses 5 amp and 200 mm earth lead specification ST 18	912.10.032	4 044657 001351	
specification GST 18	912.10.036	4 044657 001368	
EVoline® Express double socket rail Type 911 United Kingdom 2) without switch, plug and socket black			
single fuses 3.15 amp and earth clamp specification ST 18	913.10.021	4 044657 001375	
specification GST 18	913.10.025	4 044657 001382	
single fuses 5 amp and earth clamp specification ST 18	914.10.021	4 044657 001450	
specification GST 18	914.10.025	4 044657 001467	
EVoline® Express double socket rail Type 911 United Kingdom 2) without switch, with plug and socket red, for protected circuit			
single fuses 3.15 amp and earth clamp specification ST 18	913.10.022	4 044657 001399	
specification GST 18	913.10.026	4 044657 001405	
single fuses 5 amp and earth clamp specification ST 18	914.10.022	4 044657 001474	
specification GST 18	914.10.026	4 044657 001481	

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Article	Type	EAN / Comment	Picture
EVoline® Express double socket rail Type 911 United Kingdom 2) without switch, with plug and socket black			
single fuses 3.15 amp and 200 mm earth lead specification ST 18	913.10.031	 4 044657 001412	
specification GST 18	913.10.035	 4 044657 001429	
single fuses 5 amp and 200 mm earth lead specification ST 18	914.10.031	 4 044657 001498	
specification GST 18	914.10.035	 4 044657 001504	
EVoline® Express double socket rail Type 911 United Kingdom 2) without switch, with plug and socket red, for protected circuit			
single fuses 3.15 amp and 200 mm earth lead specification ST 18	913.10.032	 4 044657 001436	
specification GST 18	913.10.036	 4 044657 001443	
single fuses 5 amp and 200 mm earth lead specification ST 18	914.10.032	 4 044657 001511	
specification GST 18	914.10.036	 4 044657 001528	
EVoline® Express treble socket rail Type 905 Germany, Austria 2) with contact protection with plug and socket black specification ST 18	905.00.011	 4 044657 005939	
specification GST 18 specification Wago WINSTA®	905.00.015 905.00.110	 4 044657 005953 auf Anfrage	
EVoline® Express treble socket rail Type 905 Germany, Austria 2) with contact protection, plug & socket ST18, red, for protected circuit specification ST 18	905.00.012	 4 044657 005946	
specification GST 18 specification Wago WINSTA®	905.00.016 905.00.210	 4 044657 005960 auf Anfrage	

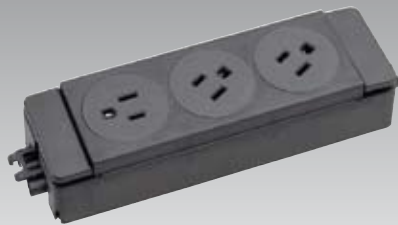
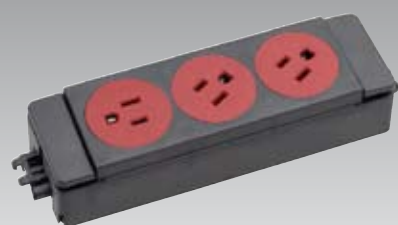
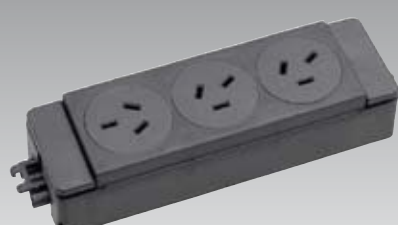
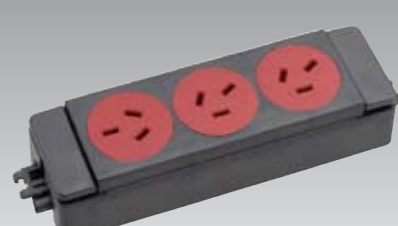
2) Table of countries on Page 152



Article	Type	EAN / Comment	Picture
EVoline® Express treble socket rail Type 905 Denmark, standard 2) with touch guard black specification ST 18	905.10.011	 4 044657 005977	
specification GST 18	905.10.015	 4 044657 005991	
specification Wago WINSTA®	905.10.110	auf Anfrage	
EVoline® Express treble socket rail Type 905 Denmark, EDV 2) with contact protection red, for protected circuit specification ST 18	905.20.012	 4 044657 006028	
specification GST 18	905.20.016	 4 044657 006042	
specification Wago WINSTA®	905.20.219	auf Anfrage	
EVoline® Express treble socket rail Type 905 Switzerland 2) with contact protection black 10 A specification ST 18	905.50.011	 4 044657 006134	
specification GST 18	905.50.015	 4 044657 006158	
specification Wago WINSTA®	905.50.110	auf Anfrage	
16 A specification ST 18	905.30.011	 4 044657 006059	
specification GST 18	905.30.015	 4 044657 006073	
specification Wago WINSTA®	905.30.110	auf Anfrage	
EVoline® Express treble socket rail Type 905 Switzerland 2) with contact protection red, for protected circuit 10 A specification ST 18	905.50.012	 4 044657 006141	
specification GST 18	905.50.016	 4 044657 006165	
specification Wago WINSTA®	905.50.210	auf Anfrage	
16 A specification ST 18	905.30.012	 4 044657 006066	
specification GST 18	905.30.016	 4 044657 006080	
specification Wago WINSTA®	905.30.210	auf Anfrage	

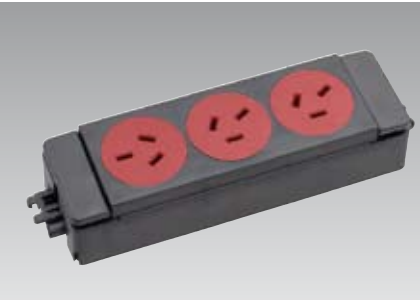
2) Table of countries on Page 152



Article	Type	EAN / Comment	Picture
EVoline® Express treble socket rail Type 905 France, Belgium, Poland 2) with contact protection black specification ST 18	905.40.011	 4 044657 006097	
specification GST 18	905.40.015	 4 044657 006110	
specification Wago WINSTA®	905.40.110	auf Anfrage	
EVoline® Express treble socket rail Type 905 France, Belgium, Poland 2) with contact protection red, for protected circuit specification ST 18	905.40.012	 4 044657 006103	
specification GST 18	905.40.016	 4 044657 006127	
specification Wago WINSTA®	905.40.210	auf Anfrage	
EVoline® Express treble socket rail Type 905 USA/Canada 2) (Type: 5-15) without contact protection black specification ST 18	905.60.011	 4 044657 006172	
specification GST 18	905.60.015	 4 044657 006196	
specification Wago WINSTA®	905.60.110	auf Anfrage	
EVoline® Express treble socket rail Type 905 USA/Canada 2) (Type: 5-15) without contact protection red, for protected circuit specification ST 18	905.60.012	 4 044657 006189	
specification GST 18	905.60.016	 4 044657 006202	
specification Wago WINSTA®	905.60.210	auf Anfrage	
EVoline® Express treble socket rail Type 905 Australia 2) 10A without contact protection black specification ST 18	905.70.011	 4 044657 006219	
specification GST 18	905.70.015	 4 044657 006233	
specification Wago WINSTA®	905.70.110	auf Anfrage	
EVoline® Express treble socket rail Type 905 Australia 2) 10A without contact protection red, for protected circuit specification ST 18	905.70.012	 4 044657 006226	
specification GST 18	905.70.016	 4 044657 006240	
specification Wago WINSTA®	905.70.210	auf Anfrage	

2) Table of countries on Page 152



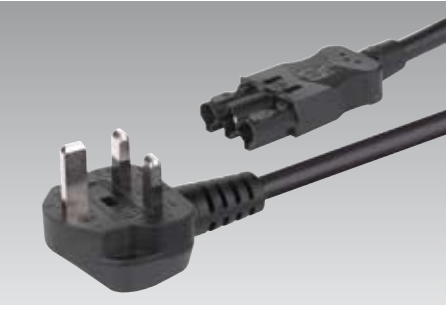
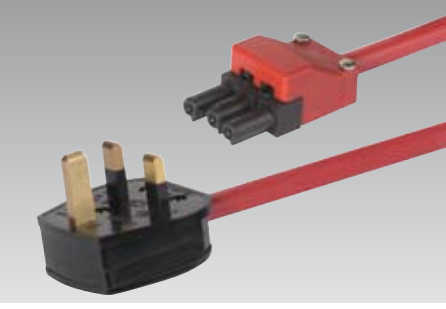
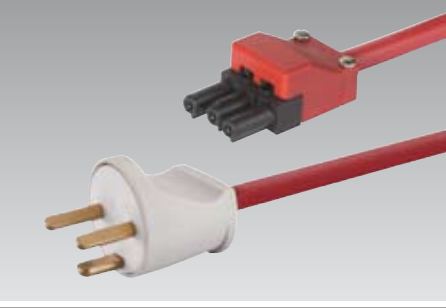
Article	Type	EAN / Comment	Picture
EVoline® Express treble socket rail Type 905 China 2) 10A without contact protection black specification ST 18	905.80.011	4 044657 006257 	
specification GST 18	905.80.015	4 044657 006271 	
specification Wago WINSTA®	905.80.110	auf Anfrage	
EVoline® Express treble socket rail Type 905 China 2) 10A without contact protection red, for protected circuit specification ST 18	905.80.012	4 044657 006264 	
specification GST 18	905.80.016	4 044657 006288 	
specification Wago WINSTA®	905.80.210	auf Anfrage	

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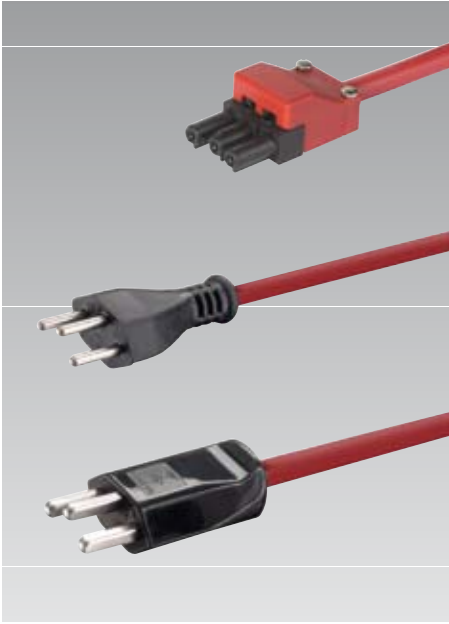
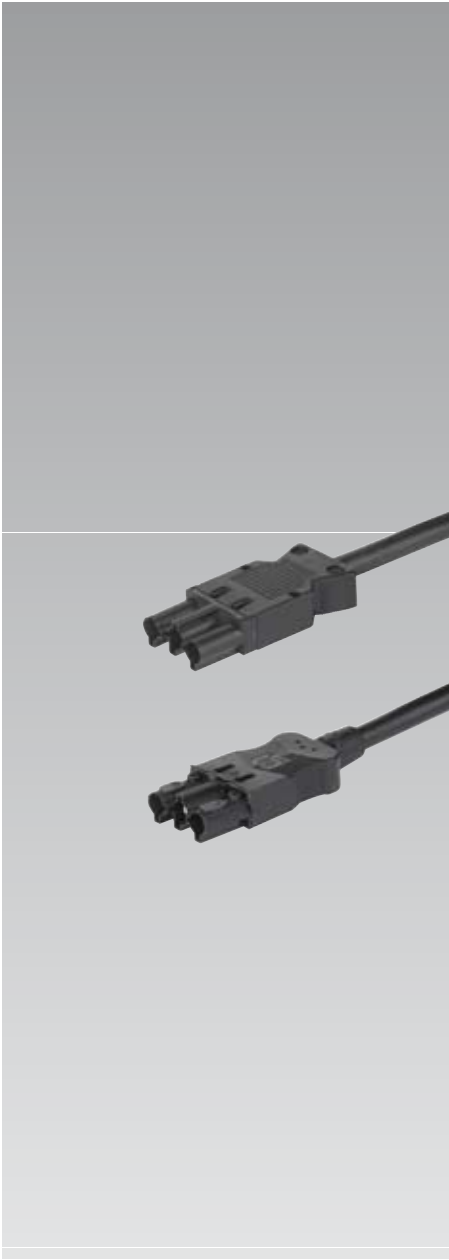


Article	Type	EAN / Comment	Picture
EVoline® Express Supply cable with safety contact angular plug with two touch guard systems Germany, Austria 2) and plug connection			
socket connector ST 18, black, 3.0 m	900.60.301	 4 044657 001719	
socket connector GST 18, black, 3.0 m	900.60.305	 4 044657 001726	
socket connector ST 18, black, 4.0 m	900.60.401	 4 044657 001757	
socket connector GST 18, black, 4.0 m	900.60.405	 4 044657 001764	
socket connector ST 18, black, 5.0 m	900.60.501	 4 044657 001795	
socket connector GST 18, black, 5.0 m	900.60.505	 4 044657 001801	
EVoline® Express Supply cable with safety contact angular plug with two touch guard systems Germany, Austria 2) and plug connection			
socket connector ST 18, red, 3.0 m	900.60.302	 4 044657 001733	
socket connector GST 18, red, 3.0 m	900.60.306	 4 044657 001740	
socket connector ST 18, red, 4.0 m	900.60.402	 4 044657 001771	
socket connector GST 18, red, 4.0 m	900.60.406	 4 044657 001788	
socket connector ST 18, red, 5.0 m	900.60.502	 4 044657 001818	
socket connector GST 18, red, 5.0 m	900.60.506	 4 044657 001825	

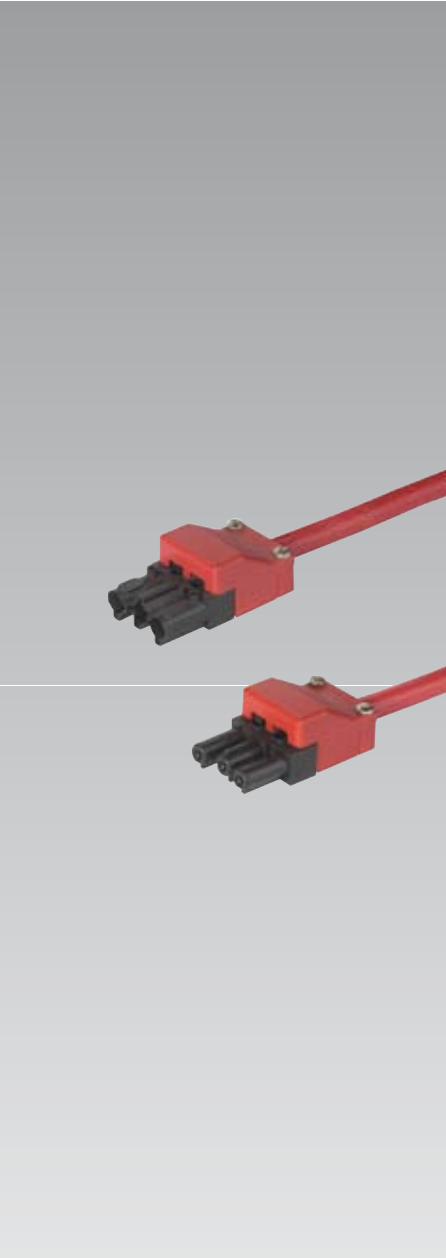
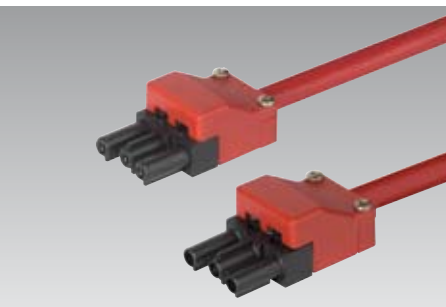
More cable lengths available for our EVoline Express modules.
 Cable for Wago WINSTA® version available.

Article	Type	EAN / Comment	Picture
EVoline® Express Supply cable with plug United Kingdom 13 A and connector			
socket connector ST 18, black, 3.0 m	911.60.301	4 044657 001832	
socket connector GST 18, black, 3.0 m	911.60.305	4 044657 001849	
EVoline® Express Supply cable with safety contact angular plug United Kingdom 13 A and connector			
socket connector ST 18, red, 3.0 m	911.60.302	4 044657 001856	
socket connector GST 18, red, 3.0 m	911.60.306	4 044657 001863	
EVoline® Express Supply cable with safety contact angular plug Denmark 10 A and connector			
socket connector ST 18, black, 3.0 m	900.64.301	4 044657 006295	
socket connector GST 18, black, 3.0 m	900.64.305	4 044657 006301	
EVoline® Express supply cable with safety contact angular plug Denmark, EDV and connector red, for protected circuit			
socket connector ST 18, red, 3.0 m	900.65.302	4 044657 006356	
socket connector GST 18, red, 3.0 mm	900.65.306	4 044657 006363	
EVoline® Express supply cable black			
with plug and plug connection Switzerland 10 A			
socket connector ST 18, black, 3.0 m	900.62.301	4 044657 006370	
socket connector GST 18, black, 3.0 m	900.62.305	4 044657 006387	
with plug and plug connection Switzerland 16 A			
socket connector ST 18, black, 3.0 m	900.66.301	4 044657 006394	
socket connector GST 18, black, 3.0 m	900.66.305	4 044657 006400	

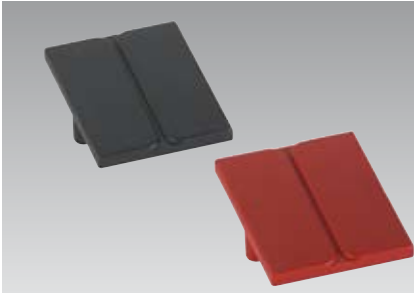
More cable lengths available for our EVoline Express modules.
 Cable for Wago WINSTA® version available.

Article	Type	EAN / Comment	Picture
EV0line® Express Supply cable red, for protected circuit			
with plug and plug connection Switzerland 10 A socket connector ST 18, red, 3.0 m	900.62.302	4 044657 006417	
socket connector GST 18, red, 3.0 m	900.62.306	4 044657 006424	
with plug and plug connection Switzerland 16 A socket connector ST 18, red, 3.0 m	900.66.302	4 044657 006431	
socket connector GST 18, red, 3.0 m	900.66.306	4 044657 006448	
EV0line® Express Connection Cable with plug and socket connector			
specification ST 18, black, 0.2 m	900.70.021	4 044657 001870	
specification GST 18, black, 0.2 m	900.70.025	4 044657 001887	
specification ST 18, black, 0.5 m	900.70.051	4 044657 006493	
specification GST 18, black, 0.5 m	900.70.055	4 044657 006516	
specification ST 18, black, 2.5 m	900.70.251	4 044657 001917	
specification GST 18, black, 2.5 m	900.70.255	4 044657 001924	
specification ST 18, black, 3.0 m	900.70.301	4 044657 000217	
specification GST 18, black, 3.0 m	900.70.305	4 044657 002433	
specification ST 18, black, 5.0 m	900.70.501	4 044657 001955	
specification GST 18, black, 5.0 m	900.70.505	4 044657 001962	

More cable lengths available for our EV0line Express modules.
 Cable for Wago WINSTA® version available.

Article	Type	EAN / Comment	Picture
EVoline® Express Connection Cable with plug and socket connector			
	specification ST 18, red, 0.2 m	900.70.022 4 044657 001894	
	specification GST 18, red, 0.2 m	900.70.026 4 044657 001900	
	specification ST 18, red, 0.5 m	900.70.052 4 044657 006509	
	specification GST 18, red, 0.5 m	900.70.056 4 044657 006523	
	specification ST 18, red, 2.5 m	900.70.252 4 044657 001931	
	specification GST 18, red, 2.5 m	900.70.256 4 044657 001948	
	specification ST 18, red, 3.0 m	900.70.302 4 044657 000224	
	specification GST 18, red, 3.0 m	900.70.306 4 044657 002440	
	specification ST 18, red, 5.0 m	900.70.502 4 044657 001979	
	specification GST 18, red, 5.0 m	900.70.506 4 044657 001986	
EVoline® Express Coupling cable with ST 18 plug and GST 18 socket connector to connect the modules of the old ST 18 system with those of the new GST 18 system	black, 0.2 m	990.90.097 4 044657 001993	
	red, 0.2 m	990.90.206 4 044657 002006	
EVoline® Express Closure cap to cover unassigned connectors	socket ST 18, black	900.80.041 4 044657 000231	
	socket GST 18, black	900.90.194 4 044657 002020	

More cable lengths available for our EVoline Express modules.
 Cable for Wago WINSTA® version available.

Article	Type	EAN / Comment	Picture
EVoline® Express Module connector for a safe connection of plugged EVoline®-modules			
black	911.83.001	4 044657 000408	
red	911.83.002	4 044657 000415	



The problem

The problems at the workstation:

- Why do computers suffer cascade failures that cause annual insurance damage in the millions due to faults in the mains or in a device, in the event of a short circuit or a near lightning strike?
- How can you bring order to the tangle of cables on the desk?
- How do you protect yourself against unnecessary power consumption and an expensive loss of data?
- How do you separate the EDP power circuit from the rest of the network without structural measures, to avoid destructive, disruptive influences?

The problems at home:

- Why are there almost one hundred deaths because of electric shock and fires triggered by cable overload annually in Germany alone?
- How can cable scorching arise without your main fuse reacting, and thus endanger your family?
- Why are you surrounded completely by darkness when a fuse switches off, in order to then blindly make your way to the stairs to switch it on?
- How do you protect your high-quality electronic equipment against damage?
- Why are cheap multiple sockets usually completely unsuitable for your purposes?

The philosophy

EVoline® Express Decentralized power distribution

Move away from central fuses, towards decentralized switching and distributing circuits that are as small as possible

Protect, switch, separate, secure and bring order, directly where faults occur in the supply network

Separate switched and protected circuits for high-performance electronic devices

The solution

Protected power circuit: RED

Red marks the power circuit or the section of the supply that must be protected by the security modules. Sensitive equipment must be connected as close as possible to the filtering and over voltage devices. All high performance equipment that can be damaged by fluctuations in the supply are connected here: computers and EDP peripherals, entertainment and presentation technology products.

Standard power circuit: BLACK

Black marks the power circuit or the section of the supply that may be protected by the security modules. Use black for devices that are relatively insensitive to supply fluctuation but that can cause disruptions to sensitive devices in their turn: fluorescent lights, vacuum cleaners or other standard devices.

Ask your insurer!

The advantages

Statistical surveys by major insurance companies show that fires and other kinds of damage are frequently triggered by overheated devices or overloaded multiple sockets.

Protect yourself and your high-quality equipment by using mobile EVoline® Residual Current Devices (RCD), MCB over-current switches, near lightning strike over-voltage protection and interference suppression filters.

Summary

At Schulte Elektrotechnik, we will fashion your power interface into a secure unit of function and design. We have been honoured with the reddot award, one of the highest prizes for design, innovation and function, for this. Leading companies from all sectors of the European economy know the problems described and trust our system. We continue to develop the EVoline® System further.

We shall be glad to advise you. Ask us.

Incidentally, we are very often asked:
What is the difference between residual current (RCD) and over-current (MCB) protection switches?

All currents that flow from the supply to the consumer's equipment and back are measured in the residual current device (RCD). The sum of these currents is always physically nil (Kirchhoff's law). If this is ever not the case in a circuit (e.g. if current is diverted through a human body or an intrinsic resistance), a residual current that can endanger people is flowing, and the RCD disconnects the consumer from the supply within a maximum of 50 milliseconds.

Thus, the RCD serves to protect people and against fire!

All currents that flow from the supply to the consumer's equipment are measured in the over-current protection switch (MCB). In the event of excess current, that is, a current above the nominal allowed current (e.g. because of a short circuit), the consumer will be disconnected from the supply.

Thus, the MCB serves to protect cabling and equipment!

Zertifikat

Auftraggeber: Reichle & De-Massari AG
Binzstrasse 31
CH-8622 Wetzikon / Switzerland

Prüfling: **R&M Kategorie 6, geschirmte RJ45 Buchse**
Art.-Nr.: R302372

Bewertungsstandards: ISO/IEC 11801: 2002-09
Information technology – Generic cabling for customer premises
EN 50173-1
Information technology – Generic cabling systems Part1
IEC 60603-7-5 / Ed. 1.0 (Draft 05.2002): Connectors for electronic equipment – Part 7-5: Detail specification for 8-way, shielded, free and fixed connectors, for Data transmissions with frequencies up to 250 MHz (Cat 6, shielded)
TIA/EIA-568-B.2-1 (Addendum No.1 to TIA/EIA-568-B.2) - June 2002
Transmission Performance Specifications for 4-Pair 100Ω Category 6 Cabling

Resultat: Der Prüfling hält bei den im Prüfbericht genannten Prüfparametern die Grenzwerte der besagten Vorgabedokumente ein.
Für alle Paarkombinationen wird die interoperable Konformität der RJ45-Buchse nach den Anforderungen der Kategorie 6 bis 250 MHz bescheinigt.
Die bei der Prüfung ermittelten Ergebnisse beziehen sich auf den beschriebenen und vom Auftraggeber vorgelegten Prüfling. Zukünftige technische Änderungen der RJ45-Buchse unterliegen dem Verantwortungsbereich der Hersteller.

Dieses Zertifikat verweist auf den ausführlichen Prüfbericht **PB-Nr. P1063a-03-D** vom **27. Februar 2003** und ist nur in Verbindung mit diesem gültig.

Bexbach, 27. Februar 2003


Dipl.-Ing. Frank Streibert
(Vorstand)



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GHMT Aktiengesellschaft

MERKBLATT KAT. 6

Gehen Sie auf Nummer Sicher!

Sind Sie überzeugt, dass Ihr Netz echte Kat. 6-Leistung erreicht?

Lassen Sie sich die Leistungsfähigkeit Ihrer Netz-Komponenten belegen, wenn Sie in Verklebungen der Leistungsstufe K6 investieren. Fragen Sie Ihre Systemlieferanten nach Zertifikaten von unabhängigen Prüfinstitutionen. Achten Sie darauf, dass die Produkte uneingeschränkt kompatibel sind, dass sie die Normen wirklich erfüllen und Datensubtrahierung in höchster Qualität gewährleisten. Nur so sind Ihre Investitionen langfristig geschützt!

Dies sind die entscheidenden Qualitätskriterien für Kat. 6-Produkte:

- ⇒ **Interoperabilität**

Verlangen Sie Kat. 6-Komponenten, die nach dem De-embedded-Verfahren zertifiziert wurden. De-embedded bedeutet: Das Labor testet den Prüfling im Zusammenspiel mit Komponenten, deren Übertragungseigenschaften gerade am Rande der Zulässigkeit liegen. Eine Anschlussbuchse beispielsweise testet man mit einer ganzen Reihe von Referenzseckern, ausgewählt nach gerade noch zulässigen Extremwerten. Wenn die Buchse diese Prüfung besteht, ist sie 100 % kompatibel zu allen anderen echten Kat. 6-Produkten.

Zertifikate über so genannte Channel-Messungen garantieren die Interoperabilität nicht. Denn dieses Verfahren erfasst nur die Eigenschaften einer kompletten Verbindung und nicht die von einzelnen Komponenten. So funktionieren Stecker und Anschlussmodule ein und desselben Herstellers fast immer miteinander. Ein Zusammenspiel mit Komponenten anderer Hersteller ist damit nicht gesichert.

⇒ Rückwärtskompatibilität

Durch das De-embedded-Verfahren ist automatisch sicher gestellt, dass jede zertifizierte Kat. 6-Komponente abwärtskompatibel zu Installationen der Leistungsstufe Kat. 5 (2002) ist.

⇒ Normen

Inzwischen sind alle relevanten Normen im Verkabelungsbereich verabschiedet. Zertifikate, die noch auf Drafts verweisen, sind also wertlos.

Verlangen Sie auch, dass die Komponenten nicht nach einer, sondern nach allen gültigen Normen geprüft sind.

Achten Sie zugleich auf die Messverfahren. Manche Labors verkürzen die Messreihen, indem sie eine Übertragungseigenschaft nicht mit Maximal- und Minimalwert Steckern, sondern mit einem „bequemen“ Mittelwertstecker prüfen.

Das Beispiel: Zertifizierung der R&M-Anschlussmodule

Jeweils zwei unabhängige Zertifikate dokumentieren die Prüfung und Leistungsfähigkeit der geschirmten und der ungeschirmten Versionen von Kat. 6-Anschlussmodulen. Die Messungen wurden an zwei akkreditierten Labors durchgeführt: DELTA und GHMT.

DELTA

Akkreditiert vom dänischen Ministerium für Wirtschaft und Industrie;
Zertifikate in englischer Sprache.

No. 2003-03 Screened Category 6 Connecting Hardware
De-embedded test method

Product description
Screened Category 6 RJ45 jack

Generic cabling standards, cable standards

- ISO/IEC 11801:2002
- EN 50173-1:2002
- ANSI/TIA/EIA-568-B.2-1

This product has been tested by the EC (European Cabling) group of DELTA and complies with the electrical requirements of the above specified standards. The mated pair requirements are passed using the **complete specified de-embedded range of RJ45 plugs.**



GHMT

Akkreditiert nach DIN EN ISO/IEC 17025 durch den Deutschen Akkreditierungsrat; Zertifikate in deutscher Sprache

Nur Zertifikate, die nach dem 27.02.03 datiert sind, beruhen auf einer vollständigen De-embedded-Messung. Andere Zertifikate sind als unvollständig zu betrachten, da nicht alle Kombinationen mit den Referenzsteckern gemessen wurden.

Achten Sie auf den Hinweis „CAT. 6 (IEC)“ im Dreieck des De-embedded-Logo. Dann sind Sie sicher, dass die Messungen vollständig und nach dem neusten Stand durchgeführt wurden. R&M hat als erstes Unternehmen seine Komponenten bei GfMT auf diese vollständige Art zertifizieren lassen.



R&M
Convincing cabling solutions

März 2003

Schulte Elektrotechnik uses only officially certified products for data and power supply applications.

Table of Colours

Choice of standard colours
 More RAL colour tones available.



Table of Countries

Which socket is used in which country:

Germany, Austria	France, Belgium, Poland	Great Britain	Switzerland	Denmark	Italy	Australia	USA, Canada	China
Germany Austria Netherlands Italy Portugal Spain Sweden Norwegia Finland Slovenia Afghanistan Andorra Romania Vatican City San Marino Hungary Estonia South Korea Indonesia Iceland Chile Part of El Salvador Bulgaria	France Belgium Poland Monaco Czechia Slovakia numerous former French colonies	United Kingdom of Great Britain and Northern Ireland (exclusive) Ireland (exclusive) Singapore (exclusive) Malaysia (exclusive) Cyprus Malta Gibraltar Botswana Ghana Hong Kong Macau Brunei Oman Kenya Iraq Qatar Parts of El Salvador	Switzerland Liechtenstein Rwanda	Denmark	Italy Countries in Africa Countries in South America South Tyrol Parts of Kenya	Australia New Zealand Papua New Guinea China (partially) Argentina Uruguay Fidji Parts of Japan	USA Canada Mexico North America (USA), Guatemala, Jamaica and Venezuela Dominican Republic Parts of Brazil Parts of Japan	China Israel
								

Abbildungen 60° Variante

Angaben ohne Gewähr

Terms and abbreviations of fibre optic technology:

SC: worldwide prevalent glass fibre plug, construction according to IEC 60874-14

SC-Duplex: duplex-Version of SC-plug

SC-RJ: compact version of SC duplex-plug with dimensions of a RJ45 bush, construction according to EN 50377-6-1/1-2

MM = Multi Mode: many modes (light signals) transmit the light, fibre: 50/125 µm, standard also 62,5/125 µm, for LAN-applications

SM = Single Mode: only one mode (light signal) transmits the light, fibre: 9/125 µm, for application in case of long distances and high bandwidths

50/125 µm: indication of fibre geometry, core of fibre measures Ø of 50 µm, cover of fibre measures Ø of 125 µm

OM2: category of fibre quality according to EN 50173, standard quality for LAN applications

Duplex: transmission of signals via two fibres / transmission channels

Simplex: transmission of signals via one fibre / transmission channels

Characteristics of EVoline® VGA Cable:

flame resistant
halogenfree

attenuation f (MHz) dB/100 m
100 14,5

impedance 75Ω

conductor 3 x 0,5mm Ø (Koax)
cross section 1 x 0,4mm Ø (Koax)
2x3 x 0,08mm Ø (Koax)

bending radius 72 mm

outer diameter 7,3 ± 0,3 mm

length of transmission see supplementary sheet

The EVoline® VGA cable are halogen-free and flame resistant.

Due to the high quality internal structure of fibres the complete VGA mode is transmitted. Three co-axial fibres 75 Ohm transmit the RGV signal without loss (depending on length, refer to table), six steering fibres serve the transmission of DDC mode and hardware detect. The high transmission quality is achieved due to the extremely low attenuation in construction of co-axial fibres, combined with an optimal synchronization factor. Furthermore, the performance of the H-V-Sync. Transmission is excellent.

The EVoline® VGA cables are worth their price.

In the end the quality of the transmitted picture counts most, to execute your presentation on a permanently exemplary level. Please do not be confused by the number of offers. Decide on a high-end product "Made in Germany".

We wish for you to see CLEARLY!

EVoline® VGA Cabel Matrix

Solution	Pixel		Video Refresh Rate (Hz)	Band Width (MHz)	Indication of Signal Transmission in Metres. Transmission of Signal up to							
	(horizontal)	(vertical)			5 m	10 m	15 m	20 m	25 m	50 m	75 m	100m
VGA	640	480	75	35	x	x	x	x	x	x	x	x
VGA	640	480	85	39	x	x	x	x	x	x	x	x
S VGA	800	600	75	54	x	x	x	x	x	x	x	-
S VGA	800	600	85	61	x	x	x	x	x	x	x	-
XGA	1024	768	75	89	x	x	x	x	x	x	x	-
XGA	1024	768	85	100	x	x	x	x	x	x	-	-
XGA	1024	768	100	118	x	x	x	x	x	x	-	-
	1152	864	75	112	x	x	x	x	x	x	-	-
	1152	864	85	127	x	x	x	x	x	x	-	-
	1152	864	100	149	x	x	x	x	x	x	-	-
S XGA	1280	1024	75	148	x	x	x	x	x	-	-	-
S XGA	1280	1024	85	167	x	x	x	x	-	-	-	-
U XGA	1600	1200	75	216	x	x	x	-	-	-	-	-
U XGA	1600	1200	85	2445	x	x	-	-	-	-	-	-

Explanations Regarding Cable Matrix VGA

VGA (Video Graphics Adapter), video graphics standard, at least 640 x 480 pixel.

S VGA (Super Video Graphics Adapter) Super-Video Graphics Standard developed by VESA, the graphics standard, which supports the graphics mode of 640 x 480 pixel with 256 colours up to 1280 x 1024 pixel with at least 16 colours.

XGA (EXtended Graphics Adapter) solution with monitors, displays and digital cameras of 1024 x 768 pixel.

S XGA (Super eXtended Graphics Adapter) solution with digital cameras of 1280 x 960 pixel.

U XGA (Ultra eXtended Graphics Adapter) solution with notebook displays of 1600 x 1200 pixel.

www.schulte.com

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