

ELEXOBUS

FLEXIBLE COPPER POWER LINK SYSTEM

High-efficiency flexible connections for transformers, switchgear and energy systems

Cable technology by **BizLink SILITHERM**

Power terminal technology by **eleexo**



KEY ADVANTAGES



FLEXIBLE ROUTING

Small bending radius for easy installation in confined spaces.



HIGH ELECTRICAL EFFICIENCY

Optimized Eleexo terminals ensure low contact resistance.



100% COPPER CONDUCTOR

Maximum conductivity, reliability and compatibility with copper busbars.



HIGH THERMAL PERFORMANCE

Silicone insulation rated up to **180 °C** continuous operation.



SIMPLE INSTALLATION

Compatible with standard cable trays, ladders, conduits and glands. No dedicated accessories required.



LSHFFR

Halogen-free, low smoke and flame retardant materials for safe installations.

TYPICAL APPLICATIONS

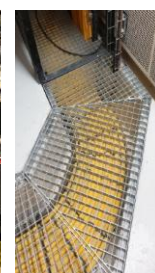
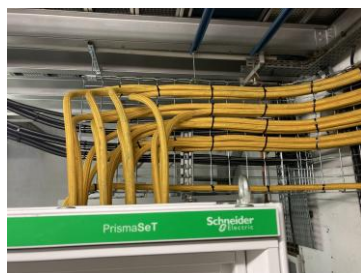


ELEXOBUS is a ready-to-install high-current power connection system for LV and MV applications up to 3.3 kV . It combines BizLink Silitherm SIF/POL silicone cable — rated at 180 °C continuous — with Eleexo proprietary low-resistance copper terminals fitted at both connection points for maximum electrical and thermal optimisation. ELEXOBUS installs in standard cable trays with standard glands. No dedicated mounting hardware required.

Designed as a direct alternative to rigid busduct / busway trunking systems for short and medium power runs up to 10 m. Minimum bending radius from 3×d to 5×d (fixed installation) versus 6×d for FG16R16. Highly flexible even at large cross-sections up to 400, 500 and 630 mm². Ideal for tight substation cabinets, confined spaces, and retrofit applications.

A distinctive feature of ELEXOBUS is that both cable connection points are terminated using Eleexo's proprietary copper power terminal technology. Unlike standard commercial crimp lugs, Eleexo terminals are engineered with an optimised contact surface geometry and controlled crimping process that minimises electrical contact resistance at the joint.

ELEXOBUS delivers maximum conductivity and full compatibility with copper busbar systems in European LV substations.



Key advantage: Internal comparative testing shows Eleexo terminals operate ≥ 10 °C cooler than standard crimp lugs at equivalent load current. With both ends of the ELEXOBUS assembly terminated with Eleexo technology, the thermal budget is fully preserved across the entire connection from transformer busbar to switchboard busbar.

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ELEXOBUS assemblies are terminated at both ends with

Elexo **STT** series copper terminals.

The assembly length **L** is specified at order.

W = terminal width, **X** = terminal plate length, **t** = terminal thickness.

(**P1** = single row, **P2** = double row — see drilling patterns)

mm ²	Elexo Terminal Code	W [mm]	X [mm]	t [mm]	Bolt	Drilling pattern	Cable Ø [mm]	Current Load 90°C free air
95	STT 95/040-L/32	32	50	5.5	M10	P1	17.4	400 A
120	STT 120/040-L/35	35	50	6.4	M10	P1	18.7	467 A
150	STT 150/040-L/35	35	50	7.5	M10	P1	21.0	542 A
185	STT 185/040-L/40	40	55	8.0	M12	P1	23.6	626 A
240	STT 240/040-L/45	45	60	9.0	M12	P1	25.8	743 A
300	STT 300/040-L/50	50	70 120	12.5	M12	P1 P2	29.2	871 A
400	STT 400/040-L/56	56	80 120	13.0	M16	P1 P2	33.8	1061 A
500	STT 500/040-L/60	60	80 120	14.5	M16	P1 P2	36.6	1235 A
630	STT 630/040-L/63	63	80 120	16.0	M16	P1 P2	41.2	1490 A

Cable current ratings and terminal performance validated by laboratory testing.

Standard assembled lengths ready to install:

0.5 m	1.0 m	1.5 m	2.0 m	2.5 m	3.0 m	4.0 m	5.0 m	7.5 m	10.0 m
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Special versions are available on request

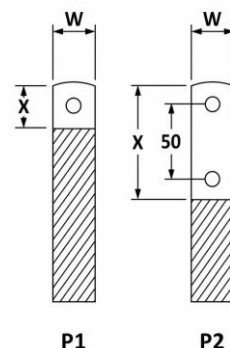
Parallel conductors and multi-cable terminals

For current ratings exceeding the single-conductor capacity, two or more ELEXOBUS cables per phase can be connected in parallel to the same Elexo terminal plate. The terminal plate geometry (width, length, hole pattern and bolt arrangement) is engineered to accommodate multiple cable heads simultaneously, following the same dimensional system as the Elexo Braided Power Conductors range.

Terminal plate dimensions and configurations for parallel assemblies are fully detailed in the Elexo Braided Power Conductors catalog.

Contact Elexo technical support for project-specific multi-cable sizing and terminal selection.

Drilling Patterns



P1

P2

CABLE TECHNOLOGY

Silicone insulation rated up to 180°C
SIF/POL cable designed for 90°C conductor class operation (IEC)
No derating required compared to standard cables
Enhanced thermal stability ensures reliable performance under load
IEC 60364-5-52 / IEC 60502-1

TERMINAL TECHNOLOGY

Low-resistance Elexo power terminals
Optimized electrical contact surface
Reduced contact resistance
Uniform current distribution
Improved heat dissipation
≥10°C cooler vs standard crimp lugs
IEC 61238-1

SYSTEM ADVANTAGE

Improved thermal behavior across the connection
Optimized conductor sizing
Reduced system losses
Simplified installation
Higher performance than conventional cable assemblies without increasing complexity