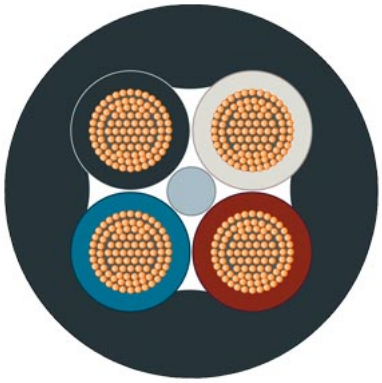
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Data sheet 6XV1801-2F

product type designation	**FRNC Energy Cable 4 x 1,5**
product description	halogen-free power cable (4-core), sold by the meter, unassembled
	FRNC Energy Cable 4x 1.5 power line; 4-core stranded wire 1.5 mm2; delivery unit: max. 1000 m, minimum order quantity 20 m Sold by the meter



product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6XV1801-2F
suitability for use	connection of 24 V power supply
electrical data	
operating voltage / RMS value	600 V
conductor cross section / of the power line	1.5 mm²
continuous current / of the power lines	6.5 A; at 40°C according to DIN VDE 0891-1 (8 A at 20°C according to DIN VDE 0891-1)
mechanical data	
number of electrical cores	4
outer diameter	
● of inner conductor	1.6 mm
● of the wire insulation	2.3 mm
● of cable sheath	7.7 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
conductor class	5
material	
● of the conductor	CU, blank
● of the wire insulation	FRNC
● of cable sheath	FRNC
product component / PE connection	No
marking / of cores	Color
color	
● of the power line insulation	brown / white / blue / black
● of cable sheath	Black
bending radius	
● with single bend / minimum permissible	31 mm
● with multiple bends / minimum permissible	62 mm
● with continuous bending	62 mm
tensile load / maximum	100 N
weight per length	109 kg/km
ambient conditions	
ambient temperature	
● during operation	-40 ... +105 °C
● during storage	-40 ... +105 °C
● during transport	-40 ... +105 °C
● during installation	-30 ... +105 °C

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fire behavior	Flame-resistant acc. to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
● to mineral oil	resistant to fuel
● to grease	Conditional resistance
● to water	Conditional resistance
radiological resistance / to UV radiation	resistant according to UL 2556 Sec. 4.2.8.5 (720h)
product features, product functions, product components / general	
product feature	
● halogen-free	Yes; halogen-free according to IEC 60754-1/2
● low-emission according to IEC 61034-2	Yes
● silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us 3047254 CM 75°C
UL/ETL style / 600 V Rating	Yes; E502506 AWM STYLE 21216 105°C
certificate of suitability	
● EAC approval	Yes
● RoHS conformity	Yes
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval				Environment
Manufacturer Declaration	CE EG-Konf.	Fire safety / Physical security	CE EG-Konf.	Declaration of Conformity	Environmental Confirmations

Environment

Environmental Confirmations

last modified: 8/7/2026

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