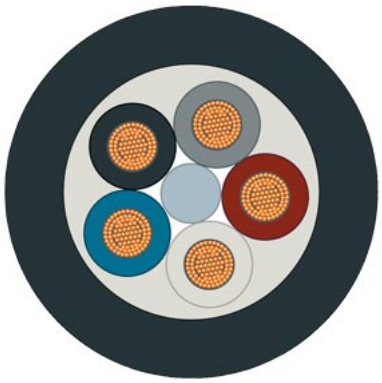
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Data sheet 6XV1801-2C

product type designation	**Control cable 5 x 0.25**
product description	Flexible Control cable (5-core), sold by the meter, unassembled
	Control cable, 5-core Power line, stranded wire, 5 x AWG24; 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/1P6XV1801-2C
cable designation	LIHH11Y 5X1X0.25 SW
electrical data	
operating voltage / RMS value	300 V
conductor cross section / of the power line	0.4 mm²
continuous current / of the power lines	2.5 A
mechanical data	
number of electrical cores	5
AWG number	24
outer diameter	
● of inner conductor	0.7 mm
● of the wire insulation	1.2 mm
● of cable sheath	5.3 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
conductor class	6
material	
● of the conductor	CU, blank
● of the wire insulation	FRNC
● of cable sheath	PUR
product component / PE connection	No
marking / of cores	Color
color	
● of the power line insulation	Brown / white / blue / black / gray
● of cable sheath	Black
bending radius	
● with single bend / minimum permissible	21 mm
● with multiple bends / minimum permissible	42 mm
tensile load / maximum	10 N
weight per length	40 kg/km
ambient conditions	
ambient temperature	
● during operation	-15 ... +80 °C
● during storage	-25 ... +80 °C
● during transport	-25 ... +80 °C
● during installation	-15 ... +80 °C
fire behavior	Flame-resistant according to IEC 60332-1-2, UL 2556, Sec. 9.3 (FT1), CSA

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	C22.2 No.2556, UL 1581, Sec. 1061 (cable flame)
class of burning behaviour / according to EN 13501-6	Fca
chemical resistance	
● to mineral oil	oil resistant according to DIN EN 60811-404 (7x24h/90°C)
● to grease	Conditional resistance
● to water	Conditional resistance
radiological resistance / to UV radiation	sunlight resistant acc. to UL 2556 sec. 4.2.8.5 (720h)
product features, product functions, product components / general	
product feature	
● halogen-free	Yes
● silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; UL Style 20233 (80°C/300V) CSA C22.2 No. 210 I/II A/B FT1
UL/ETL style / 600 V Rating	No; F
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: 3/10/2026

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