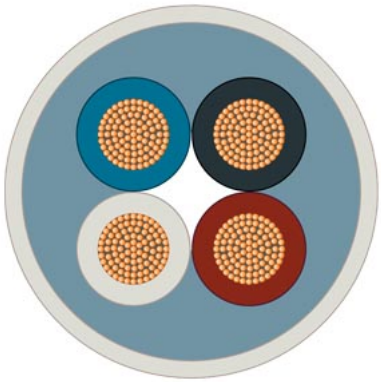
SIEMENS

Data sheet 6XV1801-2A

product type designation	**Robust Energy Cable 4 x 0,75**
product description	Robust, flexible energy cable (4-wire), sold by the meter, unassembled

Robust Energy Cable, 4-core power line, stranded wires 4x 0.75 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/1P6XV1801-2A
suitability for use	Cable with FEP jacket (fluorinated plastic, perfluoroethylene propylene) for use in the food, beverage and tobacco industry (IP65/67/69 resistant, EHEDG approval). Cable is water-repellent, weather-proof, resistant to microbes, and extremely resistant to many cleaning agents and disinfectants (such as hypochlorite, chlorine dioxide, peroxyacetic acid, and quaternary ammonium cations).
cable designation	LI9YY6Y 4X1X0.75 GY
electrical data	
insulation resistance coefficient	20 GΩ·m
operating voltage / RMS value	300 V
conductor cross section / of the power line	0.75 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	1.15 mm
● of the wire insulation	1.7 mm
● of cable sheath	5.7 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.2 mm
conductor class	5
material	
● of the conductor	CU, blank
● of the wire insulation	PP
● of cable sheath	PVC/FEP; FEP transparent
product component / PE connection	No
marking / of cores	Color
color	
● of the power line insulation	brown / blue, white / black
● of cable sheath	gray
bending radius	
● with single bend / minimum permissible	23 mm
● with multiple bends / minimum permissible	46 mm
● with continuous bending	100 mm
number of bending cycles	500000; acceleration 4 m/s²
number of torsion cycles / with torsion by ± 180° on 1 m cable length	1000000

Subject to change without notice
© Copyright Siemens

tensile load / maximum	150 N
weight per length	53 kg/km
ambient conditions	
ambient temperature	
• during operation	-40 ... +90 °C
• during storage	-40 ... +90 °C
• during transport	-40 ... +90 °C
• during installation	-40 ... +90 °C
• note	electrical characteristics measured at 20 ºC, tests according to DIN 47250 Part 4 or DIN VDE 0472
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	oil resistant according to DIN EN 60811-404 (7x24h/90°C)
• to grease	resistant
• to water	resistant
radiological resistance / to UV radiation	resistant according to UL 2556 Sec. 4.2.8.5
product features, product functions, product components / general	
product feature	
• halogen-free	No
• silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us 3047254, CMG FT4 75°C, (ETL)us PLTC-ER, SUN RES, OIL RES I or E130266 AWM 22161 AWM I A/B 80°C 300V FT2
UL/ETL style / 600 V Rating	No
certificate of suitability	
• EAC approval	Yes
• RoHS conformity	Yes
• for hygienic design	EHEDG, Installation and layout of the cables must fulfil the requirements of EHEDG published in the Guidelines Doc. 13 Hygienic Design of open equipment for processing food and Doc. 44 Hygienic Design Principles for food factories to be accessible for cleaning. Also connections must be easily cleanable by using EHEDG certified cable glands or connectors.
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	

© Copyright Siemens

Manufacturer Declaration

China RoHS

Fire safety / Physical security

General Product Approval		Food, Pharmaceutical, Medical	Environment		Industrial Communication
	Declaration of Conformity	EHEDG	Environmental Confirmations	Environmental Confirmations	PROFINET

last modified: 5/9/2026

Subject to change without notice
© Copyright Siemens