chanhvinh.com

SIEMENS

Data sheet 6XV1801-6DH50

product type designation	**Power Connecting Cable M12-180/M12-180**
product description	Flexible plug-in cable (4-wire), preferred length, pre-assembled with one 4-pin M12 male and one female connector (L-coded, 180° cable outlet)

Power connecting cable M12-180/M12-180 for the power supply of the terminal devices / network components: pre-assembled cable with M12 plug and M12 socket, L-coded, 4-pole, 5 m.



suitability for use	Cable for connecting the 24 V power supply to RF185C, RF186C, RF188C to IP65/67 degree of protection
cable designation	LIYY 4X1X1.5 BK
wire length	5 m
electrical data	
operating voltage / RMS value	600 V
conductor cross section / of the power line	1.5 mm²
continuous current / of the power lines	16 A
mechanical data	
number of electrical cores	4
type of electrical connection	M12-180
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	PVC
● of cable sheath	PVC
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
number of bending cycles	2000000
tensile load / maximum	100 N
weight per length	97 kg/km
plug	
type of plug interlock	screwed
design of plug-in connection	M12-180
connector coding	M12
connector coding / of the M12 circular connector	L-coded

Subject to change without notice
© Copyright Siemens

chanhvinh.com

ambient conditions	
ambient temperature	
● during operation	-20 ... +90 °C
● during storage	-30 ... +90 °C
● during transport	-30 ... +90 °C
● during installation	-20 ... +90 °C
fire behavior	Flame-resistant acc. to IEC 60332-1-2
chemical resistance	
● to mineral oil	Oil resistant according to EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C)
● to grease	Conditional resistance
● to water	Conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP65 / 67
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
certificate of suitability	UL2238 E300110
● EAC approval	Yes
● RoHS conformity	Yes
further information / internet links	
internet link	
● to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
● to website: Industrial communication	http://www.siemens.com/simatic-net
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter
● to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
● to website: Image database	http://automation.siemens.com/bilddb
● to website: CAx-Download-Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

last modified: 11/9/2023

Subject to change without notice
© Copyright Siemens