SIEMENS

Data sheet 6XV1822-5BH30

product type designation

product description

7/8 inch connecting cable

Plug-in cable (5-core), preferred length, preassembled with two 5-pole 7/8 inch male/female-contact connectors

7/8" plug-in cable for Power supply of the ET 200, pre-assembled cable with 2 7/8" connectors, 5-pole, 3 m.



cable designation LY11Y-Z 5x1x1.5 GR wire length 3 m electrical data insulation resistance coefficient 1 GΩ m 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 16 A number of electrical cornes 5 type of electrical connection 7/8 inch - 180 outer diameter 6 fine conductor of inner conductor 1.55 mm of of the wire insulation 2.73 mm of cable sheath 10.5 mm symmetrical loterance of the outer diameter / of cable sheath 0.3 mm design of stranding element Pairs conductor class 5 material CU, blank of the conductor CU, blank PVC VC of the conductor VER product component / PE connection Yes marking / of cores Color, digits color colles sheath PUR prod	suitability for use	Power supply of ET 200 modules with 7/8 inch power port to IP 65 degree of protection
insulation resistance coefficient 1 GO:m operating voltage / RMS value 600 V conductor cross section / of the power line 1.5 mm² continuous current / of the power lines 16 A mochanical data number of electrical cores type of electrical connection 77/8 inch - 180 outer diameter of inner conductor 1.55 mm of the wire insulation 2.73 mm of cable sheath 9.03 mm design of stranding element 9 conductor class 5 material of the conductor CU, blank of the wire insulation PVC of the power line insulation PVC of cable sheath PUR product component / PE connection Yes marking / of cores Color, digits color of the power line insulation black of of able sheath gray bending radius with continuous bending PTS mm number of bending cycles minimum permissible 63 mm number of bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min weight per length plug	cable designation	L-Y11Y-Z 5x1x1.5 GR
insulation resistance coefficient 1 GO:m operating voltage / RNRS value 600 V conductor cross section / of the power line 1.5 mm² continuous current / of the power lines 16 A mochanical data number of electrical cores 5 type of electrical connection 7/8 inch - 180 outer diameter • of inner conductor 1.55 mm • of the wire insulation 2.73 mm • of cable sheath 10.5 mm symmetrical tolerance of the outer diameter / of cable sheath 0.3 mm design of stranding element Pairs conductor class material • of the wire insulation PVC • of the wire insulation PVC of cable sheath PUR product component / PE connection Yes color of the power line insulation black of othe power line insulation black with single bend / minimum permissible 33 mm • with continuous bending 75 mm number of bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min weight per length plug	wire length	3 m
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 5 type of electrical cornection 7/8 inch - 180 outer diameter of inner conductor 1.55 mm of cable sheath 10.5 mm symmetrical tolerance of the outer diameter / of cable sheath 0.3 mm design of stranding element Pairs conductor class 5 material of the conductor CU, blank of the wire insulation PVC of the wire insulation PVC of the wire insulation PVC conductor class 5 material of the conductor CU, blank product component / PE connection PVC of cable sheath PUR product component / PE connection Yes color with single bend / minimum permissible gray bending radius with continuous bending 75 mm number of bending cycles tensile load / maximum weight per length plug	electrical data	
conductor cross section / of the power line	insulation resistance coefficient	1 GΩ·m
continuous current / of the power lines 16 A mechanical data number of electrical corees 5 type of electrical cornection 7/8 inch - 180 outer diameter of inner conductor 1.55 mm of table sheath 10.5 mm symmetrical tolerance of the outer diameter / of cable sheath 0.3 mm design of stranding element Pairs conductor class 5 material of the conductor CU, blank of the wire insulation PVC of cable sheath PUR product component / PE connection Yes marking / of cores Color, digits color of the power line insulation permissible arm of cable sheath gray bending radius with single bend / minimum permissible 3 mm ewith continuous bending 75 mm number of bending cycles with a bending radius of 189 kg/km plug tensile load / maximum 500 N weight per length 149 kg/km	operating voltage / RMS value	600 V
number of electrical cores type of electrical connection 7/8 inch - 180 outer diameter of inner conductor of the wire insulation of the wire insulation outer diameter of the wire insulation of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath design of stranding element conductor class for the wire insulation of cable sheath Of the wire insulation Of cable sheath Of the pwer line insulation Of the power line insulation Of the pwer line insulation Of the power line	conductor cross section / of the power line	1.5 mm²
number of electrical cores type of electrical connection outer diameter • of inner conductor • of the wire insulation • of cable sheath symmetrical tolerance of the outer diameter / of cable sheath design of stranding element • of the conductor • of the conductor • of the wire insulation • of cable sheath Symmetrical tolerance of the outer diameter / of cable sheath design of stranding element • of the conductor • of the conductor • of the wire insulation • of cable sheath PVC of cable sheath PUR product component / PE connection • of the power line insulation • of cable sheath product component / PE connection • of cable sheath product component / PE onnection • of the power line insulation • of cable sheath pray bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible • with continuous bending number of bending cycles foon 0000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum weight per length plug	continuous current / of the power lines	16 A
type of electrical connection outer diameter of linner conductor of the wire insulation of cable sheath symmetrical tolerance of the outer diameter / of cable sheath design of stranding element conductor class faterial of the conductor of the wire insulation of the wire insulation PVC of cable sheath PUR product component / PE connection marking / of cores color of the power line insulation of the power line insulation of cable sheath bending radius with single bend / minimum permissible with single bend / minimum permissible with untitple bends / minimum permissible with continuous bending number of bending cycles tensile load / maximum single per length 1.55 mm 1.49 kg/km	mechanical data	
outer diameter • of inner conductor • of the wire insulation • of cable sheath 10.5 mm symmetrical tolerance of the outer diameter / of cable sheath 0.3 mm design of stranding element conductor class 5 material • of the conductor • of the wire insulation • of the wire insulation • of the wire insulation • of cable sheath product component / PE connection marking / of cores Color • of the power line insulation • of cable sheath gray bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible • with continuous bending number of bending cycles tensile load / maximum selection in the selection of 4 m/s² and a speed of 180 m/min tensile load / maximum plug plug	number of electrical cores	5
of inner conductor of the wire insulation of cable sheath 10.5 mm symmetrical tolerance of the outer diameter / of cable sheath 10.5 mm symmetrical tolerance of the outer diameter / of cable sheath 10.5 mm design of stranding element conductor class 5 material of the conductor of the wire insulation of the wire insulation PVC of cable sheath PUR product component / PE connection marking / of cores Color of the power line insulation of the power l	type of electrical connection	7/8 inch - 180
of the wire insulation of cable sheath 10.5 mm symmetrical tolerance of the outer diameter / of cable sheath design of stranding element conductor class 5 material of the conductor of the wire insulation of cable sheath PUR product component / PE connection marking / of cores color of the power line insulation of cable sheath bending radius with single bend / minimum permissible with continuous bending number of bending cycles tensile load / maximum veight per length plug 2.73 mm 10.5 mm 1	outer diameter	
of cable sheath symmetrical tolerance of the outer diameter / of cable sheath design of stranding element conductor class anaterial of the conductor of the wire insulation of cable sheath product component / PE connection marking / of cores color of the power line insulation of cable sheath product component / PE connection of the power line insulation of the power line insulation of cable sheath bending radius with single bend / minimum permissible with multiple bends / minimum permissible with continuous bending number of bending cycles source tensile load / maximum source symmetrical tolerance of the outer diameter / of cable sheath symmetrical tolerance CU, blank PVC CU, blank PUR PUR policy results product component / PE connection yes marking / of cores Color, digits color of the power line insulation black of cable sheath black of cable sheath bending radius over line insulation of the power line insulation of the power line insulation sults su	of inner conductor	1.55 mm
symmetrical tolerance of the outer diameter / of cable sheath design of stranding element conductor class 5 material of the conductor of the wire insulation of cable sheath PUR product component / PE connection marking / of cores color of the power line insulation of cable sheath pending radius with single bend / minimum permissible with nultiple bends / minimum permissible with continuous bending number of bending cycles tensile load / maximum symmetrical tolerance of the outer diameter / of cable sheath 0.3 mm Out, blank PVC PUR PUR Poduct component / PE connection Yes Color, digits Color, digits Color of the power line insulation black gray bending radius with single bend / minimum permissible of 3 mm owith continuous bending 75 mm number of bending cycles 1000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum 500 N weight per length	 of the wire insulation 	2.73 mm
design of stranding element conductor class material of the conductor of the wire insulation of the wire insulation PVC product component / PE connection marking / of cores color of the power line insulation of cable sheath penduct component / PE connection with single bend / minimum permissible with single bend / minimum permissible with continuous bending with continuous bending number of bending cycles tensile load / maximum 500 N weight per length 149 kg/km	 of cable sheath 	10.5 mm
conductor class material of the conductor of the wire insulation of cable sheath PUR product component / PE connection marking / of cores Color, digits color of the power line insulation of cable sheath product component / PE connection reflection of the power line insulation of cable sheath gray bending radius with single bend / minimum permissible with multiple bends / minimum permissible with continuous bending owith continuous bending number of bending cycles for use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum fully fully	symmetrical tolerance of the outer diameter / of cable sheath	0.3 mm
material of the conductor of the wire insulation of cable sheath product component / PE connection marking / of cores color of the power line insulation of cable sheath gray bending radius with single bend / minimum permissible with multiple bends / minimum permissible with continuous bending number of bending cycles tensile load / maximum tensile load / maximum weight per length CU, blank PVC CU, blank PVC PUR PUR PuR PuR PuR PuR Pur Selva Color, digits Color, digits Color Yes Color, digits Color Yes Color, digits Color Yes Color, digits Color For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min 149 kg/km	design of stranding element	Pairs
of the conductor of the wire insulation of cable sheath PUR product component / PE connection warking / of cores color of the power line insulation of cable sheath product component / PE connection warking / of cores color of the power line insulation of cable sheath gray bending radius with single bend / minimum permissible with multiple bends / minimum permissible with continuous bending number of bending cycles multiple continuous bending number of bending cycles footooon; for use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum funds footon self-continuous bending footon self-continuous bending footon for use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min funds footon self-continuous bending footon footo	conductor class	5
of the wire insulation of cable sheath PUR product component / PE connection Yes marking / of cores Color, digits color of the power line insulation of cable sheath gray bending radius with single bend / minimum permissible with multiple bends / minimum permissible with continuous bending number of bending cycles multiple load / maximum tensile load / maximum weight per length PVC PUR PUR PUR PUR PUR PUR PUR PU	material	
● of cable sheath product component / PE connection marking / of cores Color, digits color ● of the power line insulation ● of cable sheath gray bending radius ● with single bend / minimum permissible ● with multiple bends / minimum permissible ● with continuous bending number of bending cycles tensile load / maximum tensile load / maximum 500 N pugg PUR Yes Color, digits Color, digits Color, digits Color, digits Foolor, digits Foolo	 of the conductor 	CU, blank
product component / PE connection marking / of cores Color, digits color of the power line insulation black of cable sheath bending radius with single bend / minimum permissible with multiple bends / minimum permissible owith continuous bending number of bending cycles tensile load / maximum tensile load / maximum product component / PE connection Yes Color, digits 27 mm 63 mm 63 mm 75 mm 5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum 500 N weight per length 149 kg/km	 of the wire insulation 	PVC
marking / of cores color of the power line insulation black of cable sheath bending radius with single bend / minimum permissible with multiple bends / minimum permissible owith continuous bending number of bending cycles radius of 75 mm number of bending cycles tensile load / maximum source color, digits black gray 27 mm 63 mm 75 mm 5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum source source 149 kg/km	of cable sheath	PUR
color • of the power line insulation • of cable sheath gray bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible • with continuous bending number of bending cycles foolooo; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum fooloon tensile load / maximum fooloon	product component / PE connection	Yes
 of the power line insulation of cable sheath bending radius with single bend / minimum permissible with multiple bends / minimum permissible with continuous bending mumber of bending cycles for 5 mm number of bending cycles for 5 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum weight per length 149 kg/km 	marking / of cores	Color, digits
of cable sheath bending radius with single bend / minimum permissible with multiple bends / minimum permissible with continuous bending number of bending cycles solution of 4 m/s² and a speed of 180 m/min tensile load / maximum selection of 4 m/s² and a speed of 180 m/min tensile load / maximum solution bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum solution bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum solution bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum solution bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum solution bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum solution bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum	color	
bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible • with continuous bending number of bending cycles from 5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum 500 N weight per length 149 kg/km	 of the power line insulation 	black
 with single bend / minimum permissible with multiple bends / minimum permissible with continuous bending mumber of bending cycles 5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum 500 N weight per length 149 kg/km 	of cable sheath	gray
 with multiple bends / minimum permissible with continuous bending number of bending cycles 5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum 500 N weight per length 149 kg/km 	bending radius	
● with continuous bending number of bending cycles 5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum 500 N weight per length 149 kg/km	with single bend / minimum permissible	27 mm
number of bending cycles 5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum 500 N weight per length 149 kg/km	 with multiple bends / minimum permissible 	63 mm
radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min tensile load / maximum weight per length 149 kg/km	with continuous bending	75 mm
weight per length 149 kg/km plug	number of bending cycles	5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 75 mm, an acceleration of 4 m/s² and a speed of 180 m/min
plug	tensile load / maximum	500 N
	weight per length	149 kg/km
type of plug interlock screwed	plug	
	type of plug interlock	screwed

design of plug-in connection	7/8 inch - 180
connector coding	7/8 inch
ambient conditions	
ambient temperature	
during operation	-40 +80 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
during installation	-40 +80 °C
fire behavior	Flame-resistant acc. to IEC 60332-1
chemical resistance	
• to mineral oil	resistant
• to grease	resistant
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	No
UL/ETL style / 600 V Rating	Yes
certificate of suitability	
 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
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