

Product type designation

Product description

Energy cable 4 x 1.5

Power cable (4-core), sold by the meter, unassembled

Energy cable, 4-core power line, stranded wire, 4x 1.5 mm², trailable

Delivery unit: max. 1000 m, minimum order 20 m Sold by the meter



[Figure similar](#)

Suitability for use	Connection of 24 V power supply to RF18xC
Cable designation	LIYY 4X1X1.5 BK
Electrical data	
Operating voltage / RMS value	600 V
Conductor cross section / of the power wire	1.5 mm ²
Continuous current / of the power wires	16 A
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 • of the wire insulation • of cable sheath	CU, blank PVC PVC
Product component / PE connection	No
Marking / of cores	Color
Color	
• of the power wire insulation • of cable sheath	brown / white / blue / black Black
Bending radius	
• with single bend / minimum permissible • with multiple bends / minimum permissible • with continuous bending	31 mm 62 mm 62 mm
Number of bending cycles	2000000
Tensile load / maximum	100 N
Weight per length	97 kg/km

Ambient conditions

Ambient temperature	
• during operation • during storage • during transport • during installation	-20 ... +90 °C -30 ... +90 °C -30 ... +90 °C -20 ... +90 °C
Burning behavior	Flame-resistant acc. to IEC 60332-1-2
Class of burning behaviour / according to EN 13501-6	Eca
Chemical resistance	
• to mineral oil • to grease • to water	Oil resistant according to EN 50290-2-22 (VDE 0819), compound type TM55 (7x24h/90 °C) Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	resistant

Product features, product functions, product components / general

Product feature	
• halogen-free • silicon-free	No 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 90°C
Certificate of suitability	
• RoHS conformity	Yes

Further information / Internet-Links

Internet-Link	
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- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

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<https://mall.industry.siemens.com>

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