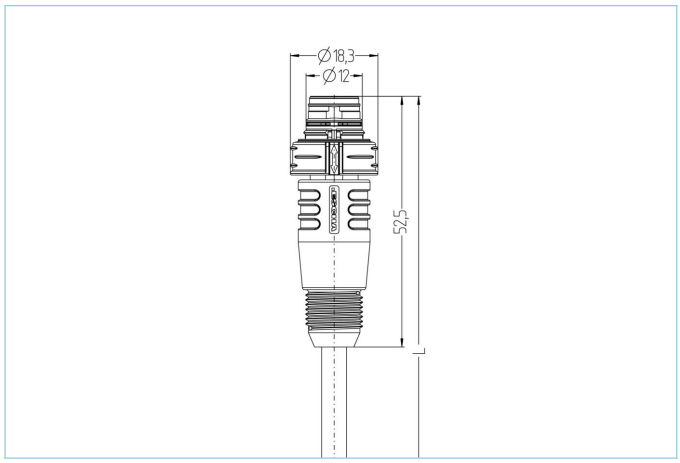
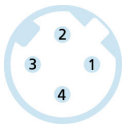
M12, Push-Pull inner locking, male, straight, 4 poles, D-coded, grip body with thread, shielded, rail approved







Product data	
Item description	RA-PPIWASSGY4.029-m/S5002BU
Item-No.	V0014148
Length	on demand
Customs tariff-No.	85444290
Step-File	RA-PPIWASSGY4-m.stp
Technical data	
Connector	male, straight, M12 Push-Pull, grip body with thread
Number of pins	4
Pin assignment	1 YE, 2 WH, 3 OG, 4 BU
Coding	D
Rated voltage	60V DC
Current load per pin (at 40°C)	4A
Insulation resistance	≥10^8Ω
Resistance	≤ 5mΩ
Transmission features	Cat5e
Contact material	Metal, CuZn, gold-plated
Contact-carrier material	Plastic, PA, BK
Grip body material	Plastic, TPU, BK
Material of shielding housing	Zinc die-cast
Shielding	with shielding
Standards	IEC 61076-2-010
Mechanical life-cycle	>100 mating cycles
Cable end assembly	open cable end
Degree of pollution	3
Style	straight

The information contained in this data sheet was compiled with the utmost care. The liability for the correctness, completeness and timelines is limited to gross negligence.

Advanced technical data rail approved	
Standards	DIN EN 50155, DIN EN 45545-2
Shock & vibration	Class 1, Category B (DIN EN 61373)
Degree of protection (mounted)	IP67 (-30°C...+90°C), IP65 (-40°C...+90°C)
Temperature range	Tx (-40°C...+90°C)
Fire prevention according to	DIN EN 45545-2 HL1-3

Cable web	Cat5, BETAtrans®, RW, 1x4xAWG22, S5002BU

Halogen-free, electron-beam cross-linked Cat5-cable with improved fire performance. This cable can be used for fixed and protected installation inside of rail vehicles and busses and fullfills the requirements according to EN 45545-2 (HL1 - HL3). It is optimally suited for all Ethernet applications of classes D (ECN) according to IEEE 802.3. For installation the guidelines of EN 50355 and EN 50343 must be considered. Due to its thin diameter, this cable is predestined for applications in which overmolded RJ45-connectors are used. BETAtrans® is a registered trademark of LEONI Studer AG, Switzerland.

Outer diameter of jacket	6.60 mm
Cable-jacket material	BETAtrans® Polyolefin Copolymer
Jacket color	BU
Wire cross-section	1 x 4 x AWG22, star quad
Wire insulation material	BETAtrans® Cell PE
Wire colors	WH, BU, OG, YE
Wire structure	7 x 0.254 mm
Bending radius (fixed)	5xØ cable
Bending radius (repeated)	6xØ cable
Temperature range (fixed)	-40°C...+85°C
Fire prevention according to	DIN EN 45545-2 HL1-3, DIN 5510 fire prevention-levels 1-4, NF F16-101 category A1, A2, B, UNI CEI 11170, danger level LR1-LR4, NFPA 130, UN ECE R 118
Shielding	Yes
Halogen-free	Yes
Transmission features	Cat5e
Special features	increased thermal load, flame retardant, low emission of smoke, halogen free, LABS free, oil- and fuel resistant, RoHs compliant, UN ECE R 118

Classification	
eCl@ss 6.0	27060307
eCl@ss 7.0	27060307
eCl@ss 8.0	27060307
eCl@ss 9.0	27060307
ETIM 5.0	EC000830
ETIM 6.0	EC000830

Accessories
Cable Stripping Tool https://www.escha.net/en/products/standard/accessories-for-connectivity/8066215
Adapter piece, M12 https://www.escha.net/en/products/standard/accessories-for-connectivity/8081747
Protective hose https://www.escha.net/en/products/standard/accessories-for-connectivity/8118979
Cable Stripping Tool https://www.escha.net/en/products/standard/accessories-for-connectivity/8066216