



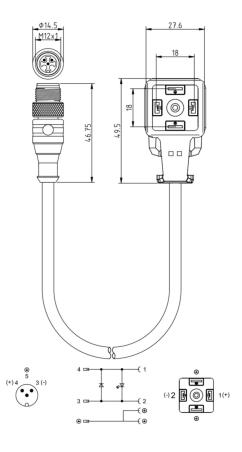
Product: <u>RST 5-3-GAN22LU-D24-226</u> ☑

M12-Form A | M12- Male 0° | #Contacts: 3 | Form A - Female 90° | #Contacts: 2+2 PE | Recovery Diode (FRD) & yellow LED | 24 V | Cable: Black (PUR); 0.50 mm²; IEC | cURus

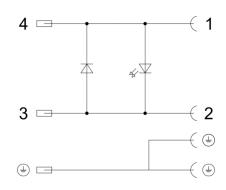
Product Description

M12 - Form A, Double-Ended Cordset| M12- Male Straight | #Contacts: 3, A-coded | Form A - Female Angled Cordset | #Contacts: 2+2 PE | Recovery Diode (FRD) & yellow LED | 24 V / 4 A | Cable: Black PUR Jacket; 3x0.50 mm² (20 AWG); IEC | UL 2238; cURus

Technical Drawing



D2 - Fast Recovery Diode (FRD) and LED



Technical Specifications

Face View Side 1

Pin 3	Pin 4	Pin 5
blue	brown	green-yellow

Face View Side 2

Pin 1	Pin 2	PE1	PE2
brown	blue	green-yellow	green-yellow

Product Description

Product Family: Valve Connectors

Brand:	Hirschmann
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Replacement for:	RST 5-3-VAD 1F-3-226
Rated Voltage:	24 V
Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Operating Voltage:	24 V DC
Rated Current*:	4 A

Technical Data Side 1

Product Sub Family:	M12 Standard
Type of Contact / Gender:	Pin Contact / Male
Connector Design:	M12 Male 3 Pole 0°
Attachment Type:	Coupling Screw
Number of Pins:	3
Coding:	A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Conductor Cross Section:	0.50 mm ²
Ambient Temperature (Operation)*:	-40 °C -+90 °C
Protection Degree / IP Rating**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	Copper Alloy (CuSn)
Contact Plating:	Gold over Copper (Cu/Au)
Contact Bearer Material:	Thermoplastic Polyurethane (TPU)
Contact Bearer Color:	Orange
Flammability Class (Contact Bearer):	UL 94 HB
Molded Body Material:	Thermoplastic Polyurethane (TPU)
Molded Body Color:	Grey Translucent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Brass (CuZn)
Attachment Plating:	Nickel (Ni)
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight

Cable Data

Cable Number:	226
Conductor Size:	0.5 mm ²
Number of Wires:	3
Minimal Bending Radius (Fixed Inst):	>5 x D
Minimal Bending Radius (Flexible Inst):	>10 x D
Cycles (Bending):	> 5 mio
Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Conductor material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Black
Cable Diameter D:	Ø 4.6 mm [0.181"]"
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	Ø 1.50 mm [0.06"]

Ambient Temperature (Fixed Installation):	- 50 °C to + 105 °C (UL: + 80 °C)		
Ambient Temperature (Flex Installation):	- 25 °C to + 105 °C (UL: + 80 °C)		
Ambient Temperature (Drag Chain Inst):	- 25 °C to + 60 °C		
UL Cable Type:	AWM: 20549		
Flammability Class (Cable Jacket):	DIN EN 50265-2-2, VDE 0482-265-2-2, IEC 60332-2-2, CSA FT2		
Cable Characteristics:	Flexibility: Excellent Abrasion Resistance: Excellent Oil & Chemical Resistance: Excellent UV Resistance: Good to excellent Low Temp Performance: Excellent (flexible to -40°C) Flame Retardance: Varies Halogen-Free: Yes Mechanical Durability: High (resists impact, tear, and flex) Environmental Suitability: Outdoor, oily, wet, or rough environments		

Technical Data Side 2

Posted Sprawly, Sub 2, 10 of Norther 2008 Sold Contact / Femals (See Ed.) 10 of Ohr Contact Resistance, Side 2 10 of Ohr 10 of Ohr Intelligent (See Ed.) 10 of Ohr Mistigent Popular (See Ed.) 10 of Ohr Intelligent (See Ed.) 10 of Ohr Mistigent Popular (See Ed.) 10 of Ohr Intelligent (See Ed.) 10 of Ohr Mistigent Engelature (See Ed.) 10 of Ohr Intelligent (See Ed.) 10 of Ohr Mistigent Engelature (See Ed.) 10 of Ohr (See Ed.) 10 of Ohr (See Ed.) 10 of Ohr (See Ed.) Political Engelature (See Ed.) 10 of Ed. (See Ed.) 10 of Ed. (See Ed.) 10 of Ed.) Political Engelature (See Ed.) 10 of Ed.) 10 of Ed.) 10 of Ed.) Political Engelature (See Ed.) 10 of Ed.) 10 of Ed.) 10 of Ed.) Political Engelature (See Ed.) 10 of Ed.) 10 of Ed.) 10 of Ed.)	Technical Data Side 2			
Side 2	Product Sub Family, Side 2:	GAN - cURus 2238		
Allachment Type, Side 2: 24 2FE Number of Pins, Side 2: 24 2FE Contact Resistance, Side 2: 10 m Ohm Instalation Resistance, Side 2: 10 m Ohm Manage Cycles, Side 2: 4 500 Maling Cycles, Side 2: 4 50 Maling Cycles, Side 2: 4 50 Maling Cycles, Side 2: 4 50 Allachier Targershin Cycles, Side 2: 4 50 Probledison Degree / IP 6 50, F67 (F690k without additional gasket accessory, 934687001] Probledison Degree / IP 10 NEN 175501-803.4, ISO 4400 Design Standard, Side 2: 10 NEN 175501-803.4, ISO 4400 Clearing, Side 2: 3 kinc Holl Modern (F000k) Contact Base Material, Side 2: 3 kinc Holl Modern (F000k) Contact Base Material, Side 2: 4 kinc Holl Modern (F000k) Sieser, Side 2: 5 kinc Holl Polymidse (F00 k) <	Type of Contact / Gender, Side 2:	Socket Contact / Female		
Number of Pins, Side 2: 42 PE Coding, Side 2: 4 Contract Resistance, Side 2: 10 m Ohm Insulation Resistance, Side 2: 10 m Ohm Milling Cycles, Side 2: 50 Abbert Temperature 45 °C + 85 °C [Extended Temperature + 40 °C + 105 °C with additional gasket accessory, 934887011] Protection Degree / Paratury, Side 2: 10 NEN 175301-803-A, ISO 4400 Pollution Degree, Side 2: 10 NEN 175301-803-A, ISO 4400 Pollution Degree, Side 2: 10 NEN 100684-1 (VDE 0110-1) Pollution Degree, Side 2: 10 NEN 100684-1 (VDE 0110-1) Operating, Side 2: 10 news Gould (Collego); VDE 0110-1 Operating Side 3: 10 news Gould (Collego); VDE 0110-1 Operating Side 2: 10 news Gould (Collego); VDE 0110-1 Contact Base Material, Side 2: 10 neget of the polyment of	Connector Design, Side 2:	Form A Female 2+2PE Pole 90°		
Contage Side 2: A 10 mOrmon Contage Resistance, Side 2: 10 mOrmon Installation Resistance, Side 2: 10 mOrmon Mating Cycles, Side 2: 4 50 Ambient Temperature (Operation), Side 2:: 2 5 °C + 88 °C (Estended Temperature 40 °C + 105 °C with additional gasket accessory, 934887001) Protection Depter / IPP Pick, 1967 (FP60K without additional gasket, max +80 °C) Design Standard, Side 2: 10 NEN 1753-1803-A 180 44000 Design Standard, Side 2: 10 NEN 19753-1803-A 180 44000 Delation Depter, Mile 3: 3 not 10 NEN 180684-1 (VDE 0110-1) Clearance Creepage Delation, Side 2: 10 NEN 180684-1 (VDE 0110-1) Clearance Reserve Material, Side 2: 2 personal Material, Side 2: Contact Bear Material, Side 2: 2 personal Material, Side 2: Contact Bear Material, Side 2: 3 side Material, Side 2: Contact Bear Material, Side 2: 10 4 4 · 4 Molded Body Material, Side 2: 4 side Pick Material, Side 2: 5 side, Pilips combi side Indicator, Side 2: Molded Body Color, Side 2: 5 side, Pilips combi side Indicator, Side 2: 5 side, Pilips combi side Indicator, Side 2: Molded Body Color, Side 2: 5 side, Pilips combi side Indicator, Side 2: <t< td=""><td>Attachment Type, Side 2:</td><td colspan="3">Central Screw</td></t<>	Attachment Type, Side 2:	Central Screw		
Contact Resistance, Side 2. 10 mONTM Insulation Resistance, Side 2. 2 10 m ONTM Matting Cycles, Side 2. 5 0 Antibient Temperature 25 °C - 85 °C [Extended Temperature - 40 °C - 1105 °C with additional gasket accessory, 934887001] Protection, Degree 1/P Octeandon, Degree 1	Number of Pins, Side 2:	2+2 PE		
Insulation Resistance, Side 2: 5109 Ohrm Antibert, Temperature (Operation), Side 2: 525°C+ 85°C (Extended Temperature + 40°C+ + 105°C with additional gasket accessory, 934887001) Protection Degree / IP (Post, without additional gasket, max. +80°C) Realing, Side 2: 10 IN EN 175301-803-A, ISO 4400 Pollution Degree, Side 2: 3 acc. to DIN EN 106864-1 (VDE 0110-1) Clearance, O'reepage (Dispage) III acc. to DIN EN 60864-1 (VDE 0110-1) Clearance, O'reepage (Dispage) III acc. to DIN EN 60864-1 (VDE 0110-1) Corrollance, Side 2: 2 (Oper over Tin (Cu/Sn)) Cortact Base Material, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Material, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Material, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Material, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Material, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Material, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Material, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Material, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Material, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cortact Baser Color, Side 2: (Oper over Tin (Cu/Sn)) Cor	Coding, Side 2:	A		
2 See Summand Analog Cycles, Side 2: 25 CC + 85 °C [Extended Temperature (Operation), Side 2**. 25 °C + 85 °C [Extended Temperature 40 °C + 105 °C with additional gasket accessory, 38488701] Potection Degree 3: 25 °C + 85 °C [Extended Temperature 40 °C + 105 °C with additional gasket accessory, 38488701] Design Sandardi, Side 2: 105 IP 67 (IP69K: without additional gasket, max. +80 °C) Design Sandardi, Side 2: 30 IN EN 175301-803-A, ISO 4400 Oberation Side 2: 30 IN EN 180684-1 (200801); VDE 0110-1 Clearance (Operages) 30 acc. to DIN EN 80684-1 (200801); VDE 0110-1 Cortact Base Material, Side 2: 40 page 70 page	Contact Resistance, Side 2:	≤ 10 mOhm		
Antibart Temperature (Operation), Side 2: Petecticn Despire 3: Peter 3: Peter 3: Peter 4:		> 10^9 Ohm		
Coperation Side 2* Pest	Mating Cycles, Side 2:	≤ 50		
Rating, Side 2**: FOURTH (WISTER MINIOR STRUCK) (SIDE 2) Design Standard, Side 2 DIN EN 175301-803-A. (30 4400 Pollution Degree, Side 2: 3 acc. to DIN EN 60684-1 (VDE 0110-1) Clearance / Creepage Distance, Side 2: DIN EN 60684-1 (2008/01); VDE 0110-1 Cortact Base Material, Side 2: Coper over Tin (CUSn) Contact Base Material, Side 2: Coper over Tin (CUSn) Contact Baser Material, Side 2: Coper over Tin (CUSn) Contact Bearer Material, Side 2: Coper over Tin (CUSn) Elemmability Class (Contact Bearer Side 2*) U. 94 V-0 Molded Body Material, Side 2: Termplastic Polyurethane (TPU) Molded Body Ostor, Side 2: Gery Translucent Blammability Class (Monde) U. 94 HB Altachment Material, Side 2: Molded Integrated Gasket Function Indicator, Side 2: Veilow LED Function Indicator, Side 2: Veilow LED Fastering Torque (Attachment, Side 2: Veilow LED Fastering Torque (Attachment, Side 2: Side 2: Accessories to Double Side (Side 2: Side 2: Fastering Torque (Attachment, Side 2: Veilow LED	Ambient Temperature (Operation), Side 2*:	- 25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]		
Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage bislance, Side 2: 3 ll acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: 3 ll acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: 4 copper over Tin (CwSn) Contact Baser Material, Side 2: 5 copper over Tin (CwSn) Contact Baser Auterial, Side 2: 4 copper over Tin (CwSn) Contact Baser Color, Side 2: 5 copper over Tin (CwSn) Contact Baser Color, Side 2: 6 copper over Tin (CwSn) Conta	Protection Degree / IP Rating, Side 2**:	IP65, IP67 (IP69K: without additional gasket; max. +80 °C)		
Clearance Creepage Distance, Side 2: DIN EN 60664-1 (2008/01); VDE 0110-1 (2008/01); VDE	Design Standard, Side 2:	DIN EN 175301-803-A, ISO 4400		
Distance, Side 2: " liac. to DIN EN 60684-1 (VDE 0110-1) Contact Base Material, Side 2: Copper over Tin (CuSn) Contact Baser Material, Side 2: Copper over Tin (CuSn) Contact Bearer Material, Side 2: Copper over Tin (CuSn) Contact Bearer Material, Side 2: Distance Material, Side 2: Copper over Tin (CuSn) Contact Bearer Material, Side 2: Contact Bearer Material, Side 2: Distance Material, Side 2: Distance Material, Side 2: Distance Material, Side 2: Contact Bearer Side 2: Distance Material, Side 2: Distance Material, Side 2: Contact Bearer Side 2: Distance Material, Side 2: Distance Material, Side 2: Crey Translucent Flammability Class (Molded Body Color, Side 2: Grey Translucent Flammability Class (Molded Body Color, Side 2: Molded Integrated Gasket Flammability Class (Molded Side 2: Molded Side 2: Molded Si	Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)		
2. Contact Base Material, Side 2. Copper over Tin (Cu/Sn) Contact Bearer Material, Side 2. Copper over Tin (Cu/Sn) Contact Bearer Material, Side 2. Copper over Tin (Cu/Sn) Contact Bearer Material, Side 2. Sides-filled Polyamides (PA GF) Contact Bearer Color, Side Sides Contact Bearer Color, Sides Sides Contact Bearer Color, Sides Sid		DIN EN 60664-1 (2008/01); VDE 0110-1		
2: Contact Plating, Side 2: Copper over Tin (Cu/Sn) Contact Bearer Material, Side 2: Black Contact Bearer Color, Side 2: Con		III acc. to DIN EN 60664-1 (VDE 0110-1)		
Contact Bearer Material, Side 2: Contact Bearer Color, Side Black Flammability Class (Contact Bearer), Side 2: Contact Bearer Material, Side 2: Contact Bearer), Side 2: Contact Bearer Material, Side 2: Contact Bearer		Brass (CuZn)		
Side 2: Slass-filed Folyafilides (FR GF) Contact Bearer Color, Side 2: Lu 94 V-0 Molded Body Material, Side 2: Fremplastic Polyurethane (TPU) Molded Body Color, Side 2: Grey Translucent Flammability Class (Molded Body Color, Side 2: Steel, Philips combi slot Attachment Material, Side 2: Steel, Philips combi slot Gasket Material, Side 2: Molded Integrated Gasket Function Indicator, Side 2: Yellow LED Frotective Circuit, Side 2: Recovery Diode (FRD) Fastening Torque (Attachment), Side 2: Sloe9) Ncm Accessories to Order Spearately, Side 2: 34887001 - GAN EPDM gasket and holding clip	Contact Plating, Side 2:	Copper over Tin (Cu/Sn)		
2: International Content of Earth, Side 2: UL 94 V-0 Molded Body Material, Side 2: Grey Translucent Molded Body Color, Side 2: Grey Translucent Flammability Class (Molded Body Color, Side 2: Grey Translucent Molded Body Color, Side 2: Grey Translucent Molded Body Color, Side 2: Steel, Philips combi slot Attachment Material, Side 2: Molded Integrated Gasket Function Indicator, Side 2: Yellow LED Protective Circuit, Side 2: Recovery Diode (FRD) Fastening Torque (Attachment), Side 2: Soele, Philips combi slot Accessories to Order Separately, Side 2: Side Side Side Side Side Side Side Side		Glass-filled Polyamides (PA GF)		
Bearer), Side 2:		Black		
2: Molded Body Color, Side 2: Grey Translucent Flammability Class (Molded Body), Side 2: Steel, Philips combi slot Attachment Material, Side 2: Molded Integrated Gasket Function Indicator, Side 2: Yellow LED Protective Circuit, Side 2: Recovery Diode (FRD) Fastening Torque (Attachment), Side 2: Go-60) Ncm Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip	Flammability Class (Contact Bearer), Side 2:	UL 94 V-0		
Flammability Class (Molded Body), Side 2: Attachment Material, Side 2: Steel, Philips combi slot Gasket Material, Side 2: Molded Integrated Gasket Function Indicator, Side 2: Yellow LED Protective Circuit, Side 2: Recovery Diode (FRD) Fastening Torque (Attachment), Side 2: \$400 Ncm Coessories to Order Separately, Side 2: \$487001 - GAN EPDM gasket and holding clip		Thermoplastic Polyurethane (TPU)		
Body), Side 2: Attachment Material, Side 2: Steel, Philips combi slot Gasket Material, Side 2: Molded Integrated Gasket Function Indicator, Side 2: Yellow LED Protective Circuit, Side 2: Recovery Diode (FRD) Fastening Torque (Attachment), Side 2: (50-60) Ncm Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip	Molded Body Color, Side 2:	Grey Translucent		
Gasket Material, Side 2: Molded Integrated Gasket Function Indicator, Side 2: Yellow LED Protective Circuit, Side 2: Recovery Diode (FRD) Fastening Torque (Attachment), Side 2: (50-60) Ncm Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip		UL 94 HB		
Function Indicator, Side 2: Yellow LED Protective Circuit, Side 2: Recovery Diode (FRD) Fastening Torque (Attachment), Side 2: (50-60) Ncm Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip	Attachment Material, Side 2:	Steel, Philips combi slot		
Protective Circuit, Side 2: Recovery Diode (FRD) Fastening Torque (Attachment), Side 2: (50-60) Ncm Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip	Gasket Material, Side 2:	Molded Integrated Gasket		
Fastening Torque (Attachment), Side 2: (50-60) Ncm Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip	Function Indicator, Side 2:	Yellow LED		
(Attachment), Side 2: Accessories to Order Separately, Side 2: 934887001 - GAN EPDM gasket and holding clip	Protective Circuit, Side 2:	Recovery Diode (FRD)		
Separately, Side 2: 934007001 - GAIN EPDM gasket and noticing clip		(50-60) Ncm		
Note, Side 2: 1. Do not connect or disconnect under load. 2. Extended temperature range of -40°C performed by Belden in mated condition using EPDM gasket accessory.		934887001 - GAN EPDM gasket and holding clip		
	Note, Side 2:	1. Do not connect or disconnect under load. 2. Extended temperature range of -40°C performed by Belden in mated condition using EPDM gasket accessory.		

Approvals

UL-File:	E315587
UL:	UL 2238; cURus
VDE:	Yes

Safety & Environmental Compliance

RoHS Compliant:

Resistances

Halogenfree:	Yes
Oil Resistance:	Good chemical and oil resistance

Notes

Protection Degree / IP Rating Note:	IP Rating tested according to IEC standard using combination of a Hirschmann or Lumberg Automation connector mounted and locked	
Note Derating:	Notice derating	
Update and Revision:	Revision Number: 0.22 Revision Date: 07-31-2025	

Variants

Item #	Item Description	Cable Length	Replacement For
934755014	RST 5-3-GAN22LU-D24-2261000-1UB	10 m	ID: 89177 Name: RST 5-3-VAD 1F-4-3-226/10 M
934755013	RST 5-3-GAN22LU-D24-2260500-1UC	5 m	ID: 47022 Name: RST 5-3-VAD 1F-4-3-226/5 M
934755012	RST 5-3-GAN22LU-D24-2260300-1UC	3 m	ID: 95433 Name: RST 5-3-VAD 1F-4-3-226/3 M
934755011	RST 5-3-GAN22LU-D24-2260200-1UC	2 m	ID: 11925 Name: RST 5-3-VAD 1F-4-3-226/2 M
934755010	RST 5-3-GAN22LU-D24-2260150-1UD	1.5 m	ID: 11924 Name: RST 5-3-VAD 1F-4-3-226/1,5 M
934755009	RST 5-3-GAN22LU-D24-2260100-1UD	1 m	ID: 11923 Name: RST 5-3-VAD 1F-4-3-226/1 M
934755008	RST 5-3-GAN22LU-D24-2260060-1UD	0.6 m	ID: 11922 Name: RST 5-3-VAD 1F-4-3-226/0,6 M
934755007	RST 5-3-GAN22LU-D24-2260030-1UD	0.3 m	ID: 47020 Name: RST 5-3-VAD 1F-4-3-226/0,3 M

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