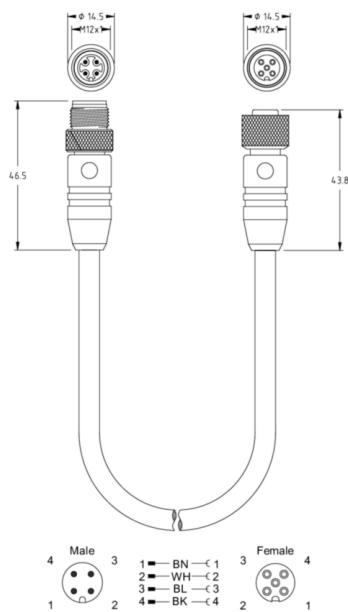**Product:** RST 4-RKT 4-643

M12 - Male 0° to Female 0° | #Contacts: 4 | 250 V | Cable TPE YE, 22 AWG, IEC | cURus

Product Description

M12 - Molded Cordset Male Straight to Female Straight | #Contacts: 4 | 250 V / 4 A | Cable TPE Yellow, 4x22 AWG, IEC | cURus 2238

Technical Drawing

Technical Specifications

Product Description

Product Family:	Sensor / Actuator Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Rated Voltage:	250 V
Rated Impulse Voltage:	2.5 kV
Rated Current*:	4 A

Technical Data Side 1

Product Sub Family:	M12 Standard
Type of Contact / Gender:	Pin Contact / Male
Connector Design:	Straight (0°) Body
Attachment Type:	Coupling Screw
Number of Pins:	4
Coding:	A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Protection Degree / IP Rating**:	IP65, IP67
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	II acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	Copper-Tin (CuSn)
Contact Plating:	Copper over Gold (Cu/Au)
Contact Bearer Material:	Thermoplastic Polyurethane (TPU)
Contact Bearer Color:	Yellow
Flammability Class (Contact Bearer):	UL 94 HB
Molded Body Material:	Polyurethane (PUR)
Molded Body Color:	Yellow
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Brass (Cu/Zn)
Attachment Plating:	Nickel-plated (Ni)
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight

Cable Data

Cable Number:	643
Conductor Size:	22 AWG
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	> 7 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 1 M
Conductor material:	Cu
Cable Jacket Material:	Thermoplastic Elastomer (TPE)
Cable Jacket Color:	Yellow
Cable Diameter D:	Ø 6.45 mm [0.254"]
Wire Insulation Material:	Polyvinyl Chloride (PVC)
Insulated Wire Diameter:	Ø 1.83 mm [0.072"]
Ambient Temperature (Fixed Installation):	- 10 °C - + 105 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 105 °C
UL Cable Type:	PLTC
Flammability Class (Cable Jacket):	Jacket FT-4
Cable Characteristics:	Oil Resistant, C-Track rated

Technical Data Side 2

Product Sub Family, Side 2:	M12 Standard
Type of Contact / Gender, Side 2:	Socket Contact / Female
Connector Design, Side 2:	Straight (0°) Body
Attachment Type, Side 2:	Coupling Nut
Number of Pins, Side 2:	4
Coding, Side 2:	A
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	- 40 °C - + 90 °C
Operating Temperature (UL), Side 2:	max. + 50 °C

Protection Degree / IP Rating, Side 2**:	IP65, IP67
Design Standard, Side 2:	IEC 61076-2-101
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	II acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	Copper-Tin (CuSn)
Contact Plating, Side 2:	Copper over Gold (Cu/Au)
Contact Bearer Material, Side 2:	Thermoplastic Polyurethane (TPU)
Contact Bearer Color, Side 2:	Yellow
Flammability Class (Contact Bearer), Side 2:	UL 94 HB
Molded Body Material, Side 2:	Thermoplastic Polyurethane (TPU)
Molded Body Color, Side 2:	Yellow
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	Brass (Cu/Zn)
Attachment Plating, Side 2:	Nickel-plated (Ni)
O-Ring Material, Side 2:	FKM, green
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight

Approvals

UL-File:	E104696
UL:	UL 2238; cURus

Safety & Environmental Compliance

RoHS Compliant:	Yes

Notes

Variants

Item #	Item Description	Cable Length
600001888	RST 4-RKT 4-643/1M	1 m
600002330	RST 4-RKT 4-643/2M	2 m
600002331	RST 4-RKT 4-643/4M	4 m
600002332	RST 4-RKT 4-643/5M	5 m
600002582	RST 4-RKT 4-643/0.3M	0.3 m
600002583	RST 4-RKT 4-643/0.6M	0.6 m
600002584	RST 4-RKT 4-643/1.5M	1.5 m
600004024	RST 4-RKT 4-643/3M	3 m
600005347	RST 4-RKT 4-643/10M	10 m
600005349	RST 4-RKT 4-643/0.5M	0.5 m
600005351	RST 4-RKT 4-643/6M	6 m
600005353	RST 4-RKT 4-643/8M	8 m
600005395	RST 4-RKT 4-643/20M	20 m
600005396	RST 4-RKT 4-643/15M	15 m
600006001	RST 4-RKT 4-643/30M	30 m
600006647	RST 4-RKT 4-643/25M	25 m
600006648	RST 4-RKT 4-643/35M	35 m
600006737	RST 4-RKT 4-643/8.5M	8.5 m
600007117	RST 4-RKT 4-643/2.5M	2.5 m
600007208	RST 4-RKT 4-643/12M	12 m
600007384	RST 4-RKT 4-643/40M	40 m