



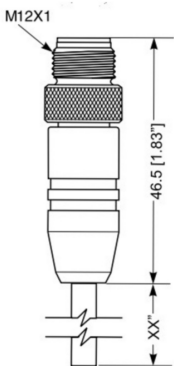
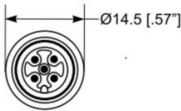
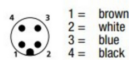
Product: [RST 4-643](#)

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

Product Description

RST 4-643 - M12 - Single Ended Male 0° | #Contacts: 4 | 250 V | Cable TPE YE, 22 AWG, IEC | cURus

Technical Drawing



Technical Specifications

Technical Data

Brand:	Belden
Connector Type:	Cordset, single ended
Connector Design:	Straight (0°) Body
Number of Pins:	4
Coding, Side 1:	A
Shielding Type:	Unshielded
Rated Impulse Voltage:	2.5 kV
Contact Resistance:	≤ 10 mOhm

Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	-40° C - +90° C
Protection Degree / IP Rating**:	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)

Materials

Contact Base Material:	Copper-Tin (CuSn)
Side 1 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)
O-Ring Material:	FKM or Viton

Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
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Cable Data

Cable Number:	643
Conductor Size:	22 AWG
Number of Wires:	4
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 1 M
Conductor Material:	Cu
Cable Jacket Material:	Thermoplastic Elastomer (TPE)/ PLTC
Cable Jacket Color:	Yellow
Cable Diameter D:	Ø 5.10 mm (.201")
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

Approvals

UL-File:	E104696
UL:	UL 2238; cURus

Safety & Environmental Compliance

RoHS Compliant:	Yes
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History

Update and Revision:	Revision Number: 0.31 Revision Date: 12-07-2025
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Variants

Item #	Item Description
600005549	RST 4-643/10M
600005646	RST 4-643/3M
600006004	RST 4-643/2M
600006026	RST 4-643/5M

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