



Product: RSWT 5-3-GAN22LU-L14-212 ☑

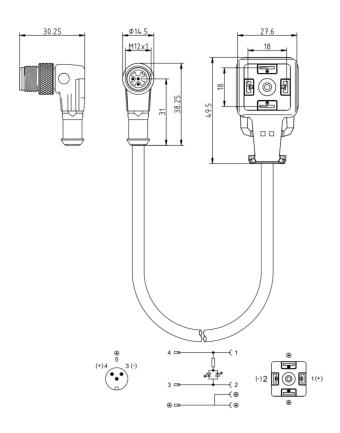
M12-Form A | M12- Male 90° | #Contacts: 3 | Form A - Female 90° |

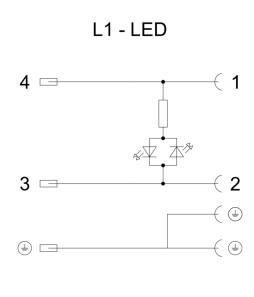
#Contacts: 2+2 PE | yellow LED | 24 V | Cable: Black (PUR); 0.50 mm²; IEC

## **Product Description**

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

### **Technical Drawing**





# **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**

Brand:	Hirschmann
Connector Type:	Cordset, double ended
Shielding:	Unshielded
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.         RSWT- M12 Standard           Type of Contact / Gender         Pin Contact / March         Pin Contact / March           Connector Design.         Angled (90') Body           Attachment Type:         Coulting Serve           Number of Pins:         3           Coding:         A           Contact Resistance:         > 10' Moh           Insulation Resistance:         > 100' 9 Ohn           Mating Cybes:         > 100           Ambient Temparture (Operation):         0.90 mr²           Conductor Cross Section         0.90 mr²           Ambient Temparture (Operation):         1965. [PPG (1 m / 24 h), IP90 K           Design Standard:         IESC 1076-2-101           Pollution Degree:         3 aco. to DIN EN 90864-1 (VIDE 0110-1)           Clearance / Creepage         Dis No 90864-1 (VIDE 0110-1)           Clearance / Creepage         Ill acc. to DIN EN 90864-1 (VIDE 0110-1)           Contact Base Material:         Coperation Section (Peration)         Cold over Copper (Cular)           Contact Beaver Moterial:         Tempoplatic Polyurethane (TPU)           Contact Beaver Cotor:         Gold over Copper (Cular)           Contact Beaver Moterial:         Tempoplatic Polyurethane (TPU)           Molded Body Material:         Tempoplatic Polyurethane (T		
Connector Design:         Angled (10°) Body           Attachment Type:         Coupling Screw           Number of Pine:         3           Coding:         4           Contact Resistance:         ± 10 mOhm           Insulation Resistance:         ± 10 mOhm           Insulation Resistance:         ± 10 mOhm           Conduct Cooks         ± 10 mOhm           Mating Cydes:         ± 10 mOhm           Conductor Cross Section:         0.50 mm²           Conductor Cross Section:         0.50 mm²           Ambient Temperature (Operación)*:         Prof. (Fiel8 (1 m /24 h), IP60K           Design Standard:         IEC 61076-2-101           Design Standard:         IEC 61076-2-101           Clearance/ Crossage         3 cac. to DIN EN 60664-1 (VDE 0110-1)           Clearance/ Crossage         Insulation Section (Volkan)           Contact Base Material:         Coper Alloy (Cush)           Contact Base Material:         Coper Alloy (Cush)           Contact Baser Material:         Thermoplastic Polyurethane (TPU)           Contact Baser Material:         Thermoplastic Polyurethane (TPU)           Moided Body Material:         Thermoplastic Polyurethane (TPU)           Moided Body Material:         Thermoplastic Polyurethane (TPU)           Moi	Product Sub Family:	RSWT - M12 Standard
Attachment Type:         Coupling Screw           Number of Pins:         3           Coding:         A           Contact Resistance:         > 10° 0 m/m           Insulation Resistance:         > 10° 0 m/m           Mating Cycles:         ± 100           Conductor Cross Section:         0.50 mm²           Ambient Temperature (Operation)*         +0° °C + 90° °C           Protection Degree / IP Rating**         1965. 1967, 1968 (1 m / 24 h), 1969K           Design Slandard:         16C 61078-2-101           Pollution Degree:         3 cac. to DIN EN 80684-1 (VDE 0110-1)           Clearance / Geepage Distance:         DIN EN 80684-1 (200801), VDE 0110-1           Overvoltage Category:         Ill acc. to DIN EN 80684-1 (VDE 110-1)           Contact Base Material:         Copper (UlAu)           Contact Baser Material:         Thermoplastic Polyurethane (TPU)           Contact Baser Color:         Orange           Flammability Class (Contact Polyurethane (TPU)           Molded Body Material:         Thermoplastic Polyurethane (TPU)           Molded Body Material:         Thermoplastic Polyurethane (TPU)           Molded Body Color:         Grey Translower           Flammability Class (Molded)         U. 94 HB           Brannance (Medical)         U. 94 HB	Type of Contact / Gender:	Pin Contact / Male
Number of Pins:         3           Coding:         A           Contact Resistance:         > 100 mbm           Insulation Resistance:         > 109 om           Mating Cycles:         \$ 100           Conductor Cross Section:         0.50 mm²           Ambient Temperature:         0.50 mm²           Protection Degree / IP Rating**:         1965, IP67, IP68 (1 m / 24 h), IP69K           Peagin Standard:         IEC 61076-2-101           Pollution Degree:         3 co. to Dis Ne N6664-1 (VDE 0110-1)           Clearance / Creepage         Dis INEN 60664-1 (VDE 0110-1)           Clearance / Creepage         Dis INEN 60664-1 (VDE 0110-1)           Contact Base Material:         Copy Alloy (CuSan)           Contact Bearer Moterial:         Thermoplastic Polyurehane (TPU)           Contact Bearer Color:         Orange           Flammability Class (Contact         II 94 HB           Molded Body Material:         Thermoplastic Polyurehane (TPU)           Molded Body Color:         Gey Translucet           Beammability Class (Molded)         U.9 4 HB           Attachment Material:         Protection Polyurehane (TPU)           Attachment Material:         Protection Polyurehane (TPU)           Rattachment Pating:         Note (A)           Att	Connector Design:	Angled (90°) Body
Coding:         A           Contact Resistance:         \$ 10 mChm           Insulation Resistance:         > 10*9 0 hm           Mating Cycles:         \$ 100           Conductor Cross Section:         0.50 mm²           Ambient Temperature (Operation)*:         40 °C - 490 °C           Protection Degree / IP Sel, 1967, 1968 (1 m / 24 h), 1969 K           Design Standard:         IEC 81076-2-101           Design Standard:         IEC 81076-2-101           Pollution Degree:         3 acc. to DIN EN 80684-1 (VDE 0110-1)           Clearance / Creepage Delarance:         UN EN 80684-1 (VDE 0110-1)           Contact Base Material:         Copper Alloy (CuSn)           Contact Bearer Material:         Thermoplastic Polyurethane (TPU)           Contact Bearer Material:         Thermoplastic Polyurethane (TPU)           Contact Bearer Material:         Thermoplastic Polyurethane (TPU)           Moided Body Material:         Thermoplastic Polyurethane (TPU)           Moided Body Material:         Thermoplastic Polyurethane (TPU)           Flammability Class (Moided):         U.94 HB           Brandacian (Moided Body Material:         Thermoplastic Polyurethane (TPU)           Moided Body Standard:         Thermoplastic Polyurethane (TPU)           Moided Body Material:         Thermoplastic Polyurethane (TPU) <td>Attachment Type:</td> <td>Coupling Screw</td>	Attachment Type:	Coupling Screw
Contact Resistance:         \$ 10 mOhm           Insulation Resistance:         \$ 10°9 Ohm           Mating Cycles:         \$ 100           Conductor Cross Section:         0.50 mm²           Ambient Temperature (Operation)*:         40 °C - 90 °C           Cyclestion Degree / IP Rating**         1965, 1967, 1968 (1 m / 24 h), IP69K           Design Standard:         1866 (61078-21 H0)           Design Standard:         1866 (61078-21 H0)           Oblistion Degree:         3 ac.: to DIN EN 60664-1 (VDE 0110-1)           Clearance / Creepage Distance:         Din EN 60664-1 (VDE 0110-1)           Overvoltage Category:         Ill acc. to DIN EN 60664-1 (VDE 0110-1)           Contact Baser Material:         Copper Alloy (CuSn)           Contact Bearer Material:         Thermoplastic Polyurethane (TPU)           Contact Bearer Material:         Thermoplastic Polyurethane (TPU)           Molded Body Color:         Grey Translucent           Flammability Class (Molded Body Aderial:         Thermoplastic Polyurethane (TPU)           Molded Body Class (Molded Body Closs)         Grey Translucent           Flammability Class (Molded Body Closs)         Grey Translucent           Flammability Class (Molded Body Closs)         Grey Translucent           Altachment Material:         Rass (CuZn)           Altachme	Number of Pins:	3
Insulation Resistance:         > 10% 0 hm           Mating Cycles:         \$ 100           Conductor Cross Section:         0.50 mm²           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 80684-1 (VDE 0110-1)           Clearance / Creepage Distance:         DIN EN 80684-1 (2008/01); VDE 0110-1           Overvoltage Category:         Ill acc. to DIN EN 80684-1 (VDE 0110-1)           Contact Base Material:         Copper Alloy (CuSn)           Contact Baser Material:         Copper Alloy (CuSn)           Contact Bearer Aderial:         Orange           Fiammability Class (Contact Bearer Color:         Orange           Fiammability Class (Contact Bearer Color:         Orange           Fiammability Class (Molded Body Materia):         Thermoplastic Polyurethane (TPU)           Molded Body Material:         Thermoplastic Polyurethane (TPU)           Molded Body Color:         Grey Transluent           Fiammability Class (Molded Body Color:         Grey Transluent           Flammability Class (Molded Body Color:         Six (Six (Molded Body Materia):           Fastening Torque         M 1241 (50.60) Norn hand sieth </td <td>Coding:</td> <td>A</td>	Coding:	A
Mating Cycles:         \$ 100           Conductor Cross Section:         0.50 mm²           Ambient Temperature (Operation)*:         -40 °C -+ 90 °C           Protection Degree / IP Rating**:         IP65, IP67, IP68 (1 m / 24 h), IP68 K           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 (VDE 0110-1)           Overvoltage Category:         Ill acc. to DIN EN 60664-1 (VDE 0110-1)           Contact Base Material:         Copper Alloy (CuSn)           Contact Bearer Material:         Copper Alloy (CuSn)           Contact Bearer Material:         Thermoplastic Polyurethane (TPU)           Contact Bearer Color:         Orange           Elammability Class (Contact)         UL 94 HB           Molded Body Material:         Thermoplastic Polyurethane (TPU)           Molded Body Color:         Grey Translucent           Flammability Class (Molded Body Color:         Grey Translucent           Flammability Class (Molded Body Color:         Srey Translucent	Contact Resistance:	≤ 10 mOhm
Conductor Cross Section:         0.50 mm²           Ambient Temperature (Operation)*:         -40 °C + 90 °C           Contact 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 (VDE 0110-1)           Overvoltage Category:         III acc. to DIN EN 60664-1 (VDE 0110-1)           Contact Base Material:         Copper Alloy (CuSn)           Contact Base Material:         Copper Alloy (CuSn)           Contact Bearer Material:         Thermoplastic Polyurethane (TPU)           Contact Bearer Color:         Orage           Flammability Class (Contact)         U. 94 HB           Molded Body Material:         Thermoplastic Polyurethane (TPU)           Molded Body Color:         Grey Translucent           Flammability Class (Molded Body):         U. 94 HB           Attachment Material:         Pisas (CuZn)           Attachment Material:         Nickel (ND)           Fastening Torque         M 1241 (40.00 Norm hand-tiet)	Insulation Resistance:	> 10^9 Ohm
Ambient Temperature (Operation)*: -40 °C - 90 °C  Protection Degree / IP Rating**	Mating Cycles:	≤ 100
Protection Degree / IP Rating**;   P65, IP67, IP68 (1 m / 24 h), IP69K	Conductor Cross Section:	0.50 mm <sup>2</sup>
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 (VDE 0110-1)  Overvoltage Category: Ill acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material: Copper Alloy (CuSn)  Contact Baser Material: Thermoplastic Polyurethane (TPU)  Contact Bearer Material: Thermoplastic Polyurethane (TPU)  Flammability Class (Contact Bearer Color: Grey Translucent (TPU)  Molded Body Material: Thermoplastic Polyurethane (TPU)  Molded Body Color: Grey Translucent  Flammability Class (Molded Body Color: Grey Translucent Tempolastic Polyurethane (TPU)  Attachment Material: Brass (CuZn)  Attachment Plating: Nickel (Nii)  Fastening Torque M 1291: (50,60) New handslight		- 40 °C - + 90 °C
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: Ill 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 Color: Grey Translucent  Flammability Class (Molded Brais): Brass (CuZn)  Attachment Plating: Nickel (Ni)  Fastening Torque M 1291-160-00 New pand-light 1	Protection Degree / IP Rating**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Clearance / Creepage Distance:  DIN EN 60664-1 (2008/01); VDE 0110-1  Overvoltage Category: Ill 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): Molded Body Material: Thermoplastic Polyurethane (TPU)  Molded Body Material: Thermoplastic Polyurethane (TPU)  Molded Body Color: Grey Translucent  Flammability Class (Molded Body Color: Blammability Class (Molded Body Color: Sersey Translucent  Flammability Class (Molded Body Color: Blammability Class (Molded Body Color: Blammabili	Design Standard:	IEC 61076-2-101
Distance: Distan	Pollution Degree:	3 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): Nickel (Ni)  Attachment Material: Brass (CuZn)  Attachment Plating: Nickel (Ni)  Fastening Torque M 12yt (50.60) Nem hand sints		DIN EN 60664-1 (2008/01); VDE 0110-1
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  M 1271: (50-60) Nem hand-tiebt	Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
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 M 12/1: (50-60) New hand-tight	Contact Base Material:	Copper Alloy (CuSn)
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  M 13/1: (50-60) New hand tight	Contact Plating:	Gold over Copper (Cu/Au)
Flammability Class (Contact Bearer):  Molded Body Material:  Molded Body Color:  Grey Translucent  Flammability Class (Molded Body):  UL 94 HB  Attachment Material:  Brass (CuZn)  Attachment Plating:  Nickel (Ni)  Fastening Torque  M 13v1: (50-60) Ncm. hand tight	Contact Bearer Material:	Thermoplastic Polyurethane (TPU)
Bearer): CEST ID  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 M 13/1 (50-60) New hand tight	Contact Bearer Color:	Orange
Molded Body Color: Grey Translucent  Flammability Class (Molded Body):  Attachment Material: Brass (CuZn)  Attachment Plating: Nickel (Ni)  Fastening Torque M 13/1 (50-60) Nom hand tight		UL 94 HB
Flammability Class (Molded Body):  Attachment Material: Brass (CuZn)  Attachment Plating: Nickel (Ni)  Fastening Torque M 13/1 (50-60) Ncm hand tight	Molded Body Material:	Thermoplastic Polyurethane (TPU)
Body): CL 94 TID  Attachment Material: Brass (CuZn)  Attachment Plating: Nickel (Ni)  Fastening Torque M 13v1 (50.60) Ncm hand-tight	Molded Body Color:	Grey Translucent
Attachment Plating: Nickel (Ni)  Fastening Torque M 12v1 (50.60) Ncm hand tight		UL 94 HB
Fastening Torque M 12v1: (50.60) Nom, hand-tight	Attachment Material:	Brass (CuZn)
	Attachment Plating:	Nickel (Ni)
		M 12x1: (50-60) Ncm, hand-tight

# **Cable Data**

Cable Number:	212
Conductor Size:	0.5 mm <sup>2</sup>
Number of Wires:	3
Minimal Bending Radius (Fixed Inst):	>5 x D
Minimal Bending Radius (Flexible Inst):	>10 x D
Cycles (Bending):	> 1 mio
Conductor material:	Cu
Cable Jacket Material:	Polyvinyl Chloride (PVC)
Cable Jacket Color:	Black
Cable Diameter D:	Ø 5.0 mm [ 0.197 " ]
Wire Insulation Material:	Polyvinyl Chloride (PVC)
Insulated Wire Diameter:	Ø 1.70 mm [ 0.07 " ]
Ambient Temperature (Fixed Installation):	- 40 °C to + 70 °C
Ambient Temperature (Flex Installation):	+ 5 °C to + 70 °C

Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2
Cable Characteristics:	Flexibility: Good   Abrasion Resistance: Good   Chemical Resistance: resists water, oil, acids, and alkalis  Flame Retardance: Good   Halogen-Free: No   Mechanical Durability: Good (resists impact, tear, and flex)   Environmental Suitability: Indoor, excellent balance of performance, cost, and versatility

#### **Technical Data Side 2**

Product Sub Family, Side 2:	GAN
Type of Contact / Gender, Side 2:	Socket Contact / Female
Connector Design, Side 2:	Angled (90°) Body
Attachment Type, Side 2:	Central Screw
Number of Pins, Side 2:	2+2 PE
Coding, Side 2:	A
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 50
Ambient Temperature (Operation), Side 2*:	- 25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]
Protection Degree / IP Rating, Side 2**:	IP65, IP67 (IP69K: without additional gasket; max. +80 °C)
Design Standard, Side 2:	DIN EN 175301-803-A, ISO 4400
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance, Side 2:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	Brass (CuZn)
Contact Plating, Side 2:	Copper over Tin (Cu/Sn)
Contact Bearer Material, Side 2:	Glass-filled Polyamides (PA GF)
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 V-0
Molded Body Material, Side 2:	Thermoplastic Polyurethane (TPU)
Molded Body Color, Side 2:	Grey Translucent
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	Steel, Philips combi slot
Gasket Material, Side 2:	Molded Integrated Gasket
Function Indicator, Side 2:	Yellow LED
Fastening Torque (Attachment), Side 2:	(50-60) Ncm
Accessories to Order Separately, Side 2:	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**

VDE:	Yes			

# Safety & Environmental Compliance

RoHS Compliant:	Yes

### Resistances

Halogenfree:	Yes
Oil Resistance:	Good chemical and oil resistance

# Notes

Note Derating:	Notice derating
Update and Revision:	Revision Number: 0.8 Revision Date: 07-11-2025

#### © 2025 Belden, Inc

#### All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.