

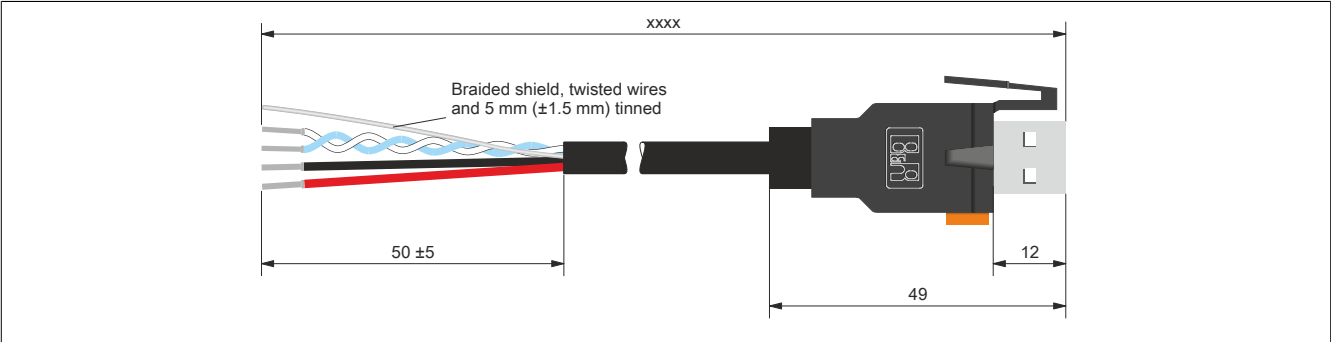
9.14.2.2 Technical data

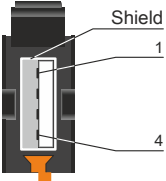
Product ID	X20CA0X48		X20CA0X68	X67CA0X99
General information				
Note				Halogen-free
Durability	Flame-retardant according to VW-1 and FT1			Flame-retardant
Connection	USB A, male			-
Type	Attachment cables	Connection cables		-
Cable cross section				
Data cables				
AWG	2x 24 AWG			
mm²	2x 0.25 mm²			
Supply lines				
AWG	2x 22 AWG			
mm²	2x 0.34 mm²			
RoHS-compliant¹)	Yes			
Cable construction				
Signal lines				
Shield	Paired shield with aluminum foil			
Stranding	Twisted pair wires			
Cable stranding	7/36 (28 AWG) with filler			0.35 mm² (22 AWG) with filler
Complete shielding	Tinned copper braiding, coverage >85%			
Outer sheathing				
Material	Polyvinyl chloride(PVC)			Thermoplastic polyurethane (TPU)
Color	Black			Violet
Labeling	"B&R" + Model number + Revision number			B&R X67CA0X99.xxxx
Lines				
Type	Tinned copper stranded wire			Tinned copper ETB1 Data line: Fine stranded wire (19x 0.13 mm) Supply line: Fine stranded wire (19x 0.15 mm)
Wire colors				
Data cables	Blue, white			
Supply lines	Red, black			
Wire insulation				
Data cables	Polyethylene foam			Cell polyethylene (PE)
Supply lines	SR PVC			Polyethylene (PE)
Electrical characteristics				
Operating voltage	30 V			Max. 2500 VAC
Degree of insulation	-			Category II in accordance with IEC 61076-2
Conductor resistance	Data line: <93.2 Ω/km at 20°C Supply line: <55 Ω/km at 20°C			Data line: ≤78 Ω/km Supply line: ≤55 Ω/km
Operating conditions				
EN 60529 protection				
Connector/Coupling	IP20, only when connected properly			-
Environmental conditions				
Temperature	-25 to 80°C			-40 to 80°C
Fixed installation	-25 to 80°C			-40 to 80°C
Flexible installation	-20 to 80°C			-25 to 60°C
Mechanical characteristics				
Dimensions				
Length	Various			
Diameter	7 mm ± 0.19 mm			6.9 mm ±0.2 mm
Bend radius	≥8x outer diameter			≥15x outer diameter
Drag chain data				
Acceleration	-			Max. 4 m/s²
Flex cycles	-			Min. 2 million
Speed	-			Max. 3 m/s
Weight	-			0.063 kg/m

Table 25: X20CA0Xx8 / x67CA0X99 - Technical data

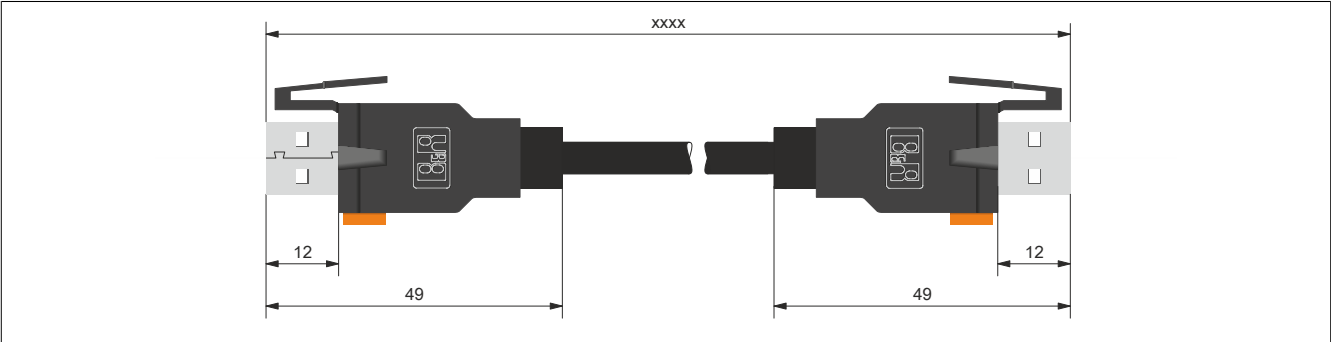
- 1) RoHS (Restriction of the use of certain Hazardous Substances) limits the use of the following substances in electrical and electronic devices: lead, mercury, cadmium, chrome VI as well as flame-retardant polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE).

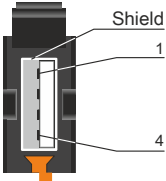
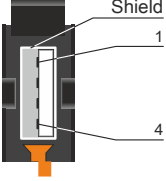
9.14.2.3 X20CA0X48.xxxx



Pinout				
Open	Pin	Name	Wire color	Male connector
For custom Wiring	1	X2X+	Red	 Shield 1 4 Keying for X3A
	2	X2X\	Blue	
	3	X2X	White	
	4	X2X _L	Black	
	Male connector	SHLD	Shield	

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Pinout				
Male connector	Pin	Name	Wire color	Male connector
 Shield 1 4	1	X2X+	Red	 Shield 1 4
	2	X2X\	Blue	
	3	X2X	White	
	4	X2X _L	Black	
	Male connector	SHLD	Shield	

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Dimensions			
			
Pinout			
For custom Wiring	Description	Wire colors	For custom Wiring
	X2X+	Red	
	X2X	White	
	X2X _L	Black	
	X2X\	Blue	
	SHLD	-	