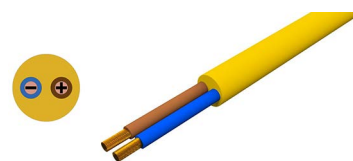


Round cable for data and power transmission

**Bihl
+ Wiedemann**
...

Round cable, yellow

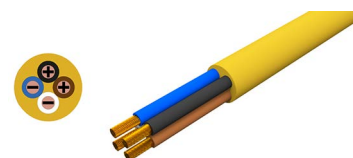
- 2 wires (BN, BU)
- for data and power transmission



(BW3653)

Round cable, yellow

- 4 wires (BK, BN, WH, BU)
- for data and power transmission and for additional 24 V auxiliary power



(BW3654)



Article no.	BW3653	BW3654
Material	PVC	
Oil-resistance	•	
Fire protection	•	
UV resistant	•	
Suitable for drag chains	-	
Direct burial	•	
TC approval	•	
ER approval	-	•
Conform RoHS	•	
UL and CSA certificated	•	

Article no.	BW3653	BW3654
In general		
Signal transmission	ASi	ASi + U _{AUX}
Operating voltage	32 V	32 V + 48 V
Current rating	16 A	
Conductor		
Number	2 wires	4 wires
Material	bare stranded copper wire	
Diameter	Ø 3,15 mm ±0,05 mm (incl. insulation)	
Nominal cross section	1,5 mm ² / AWG 16	
Insulation	PVC	
Average insulation thickness	approx. 0,76 mm	
Insulation color	BN, BU	BN, WH, BU, BK
Conductor resistance	max. 13,10 Ω/km	
Jacket		
Material	PVC	
Average thickness	approx. ,143 mm	
Outer diameter	Ø 8,6 mm	Ø 9,9 mm
Color	yellow	
Bending radius		
Min. bending radius fixed	4 x d	
Min. bending radius moved	13 x d	

Round cable for data and power transmission

Article no.	BW3653	BW3654
Environment		
Applies standards	<ul style="list-style-type: none"> • flame retardant acc. to IEC 60332-1, IEC 60332-3A and UL category FT4/IEEE • oil and water resistant acc. UL 1277 and UL 1063 (oil-resistant acc. to UL OIL RES I and water-resistant, UL wet approval 75 °C) • UV-resistant acc. to EN 50396 and HD 605 A1; SUN RES acc. to UL 1581 • UL listed acc. to UL 1277 and 1063 - UL/CSA recognized acc. to UL 10012 and 2587 	
Operating temperature	<ul style="list-style-type: none"> • fixed: -40 °C ... +90 °C (Tray Cable - MTW)/ +105 °C (cUR AWM) • moved: -5 °C ... +90 °C (Tray Cable - MTW)/ +105 °C (cUR AWM) 	
Weight (kg/km)	107	156
Delivery length	100 m (ring)	

Cross section					
Article No.	Brown (BN)	White (WH)	Blue (BU)	Black (BK)	
BW3653	ASi+	-	ASi-	-	
BW3654	ASi+	AUX-	ASi-	AUX+	

Notice

Interference in the 24 V power supply can under some circumstances when using a 4-conductor cable (BW3654) result in ASi communication errors. To ensure more robust resistance to EMC interference separate routing of the ASi cable and 24 V auxiliary power (AUX) using 2-conductor cables (e.g. BW3653) is recommended.

Notice
Due to the more favorable geometry for ASi communication, longer ASi circuit lengths can be achieved with ASi profile cables (e.g. BW2756) than with round cables.



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