

# Combined Power and Signal Cable

RQAQBR 2x1, 5+2x2x0, 5mm<sup>2</sup> KOMBI2-HF500 Electric Cable

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## I. General

This specification includes a combined power supply and signal cable. The power supply leads have a blank Cu-line, 1.5 mm<sup>2</sup>. The conductors for signal transmission have blank Cu-line, 0.5 mm<sup>2</sup>. Both the power supply lines and signal conductors have insulation of halogen free, flame retardant compound and twisted to pairs. The cable has a common aluminum / polyester film and casing of halogen free, flame retardant plastic compound and is intended for indoor installation. The flame-retardant characteristics of the cable comply with the requirements for class F2 according to SS 424 14 75.

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## II. Construction

A.	Conductor	<b>Power supply lead</b> Multi-layered, glossy copper 32x0.233 mm. Nominal conductor area	1,5	mm <sup>2</sup>
		<b>Lead for signal transmission</b> Halogen-free flame-proof plastic compound. Nominal thickness	0,5	mm <sup>2</sup>
B.	Isolation	<b>Power supply lead</b> Halogen-free flame-proof plastic compound. Nominal thickness	0,6	mm
		<b>Lead for signal transmission</b> Two power lines twisted to pairs Colour: Red Black Nominal diameter over insulation	0,5	mm
C.	Twisting	<b>Power supply lead</b> Two power lines twisted to pairs Max twisting Colour: Red Black	75	mm
		<b>Lead for signal transmission</b> Two signal leaders twisted to pairs Twisting Colour: White- blue White – Brown	max 50	mm
D.	Cabling	A power pair and a signal pair are inter-connected		
E.	Strapping	Plastic tape coated with overlap.		
F.	Screen	The cable has a common aluminum /Polyester foil, which is coiled with overlap and with all sides inward. Nominal aluminum thickness 0,009 mm Below and in contact with the Al-layer is one Diluted Cu-lina, 16x0.20 mm (0.5 mm <sup>2</sup> ), Long-term as connection leader.		
G.	Jacket	Halogen-free, flame-proof compound, white Nominal thickness	1,0	mm
		Nominal diameter	10,5	mm
		Net weight per 100 m	ca 11,0	kg

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## Electrical Data at 20 °C

Conductor resistance (single conductor)	Conductor 1,5mm <sup>2</sup>	max	13,5	Ω/km
	Conductor 0,5mm <sup>2</sup>	max	39,0	Ω/km
Operating voltage		max	100	V vs

## IV. Jacket solutions for isolation and installation

The average thickness shall not in any section be less than 90% of nominal thickness.  
The minimum thickness shall not in any section be less than 75% of nominal thickness.

**Reaction to Fire Classification:** Dca-s2,d2,a1

**Vanderbilt DoP referens:** P1001V1

**Date:** 27/07/2017

## Ordering Information

Article Nr.	Description	Length	Weight
V54592-Z160-A100	KOMBI2-HF100 Electric Cable	100m	12,5Kg
V54592-Z159-A100	KOMBI2-HF500 Electric Cable, 500m	500m	66,0Kg

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