

Combined Power and Signal Cable

RQQAQBR 2x2x1, 0+1x2x0,8

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■ General

This specification includes a combined power supply and signal cable. The power supply leads have a blank Cu-lina, 1.0 mm² and insulation of halogen-free, flame retardant plastic compound and twisted to two pairs. The signal transmission conductors have solid, solid copper, diameter 0.8 mm, PE insulation, and are part wires and screens with an Al / Pr film. The cable has a halogen free, flame retardant jacket and is intended for indoor installation. Complies with the requirements for fire spreading class F2 according to SS 424 14 75

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II. Construction

- A. Conductor
Power supply lead
Multi-threaded, blank, annealed copper, 32x0,19 mm.
Nominal area 1,0 mm²
Lead for signal transmission
Solid, glossy, braided copper
Nominal diameter 0,8 mm
Nominal area 0,5 mm²
- B. Isolation
Power supply lead (1.0 mm²)
Colored, halogen free, flame retardant plastic compound.
Color scheme: 1 red and 2 black
Nominal Insulation thickness 0.7 mm
Lead for signal transmission (0,8mm)
Solid polyethylene, colored
Nominal insulation thickness 0,3 mm
- C. Twisting
Four power lines twisted to two pairs.
Twisting max 75 mm
Colour scheme:
Pair 1 Red-Black
Pair 2 Green-Black
Leader for signal transmission
Two signal leaders twisted to pairs
Colour Scheme: White-Blue max 75 mm
- D. Screen
The signal pair is a screen mat with an aluminum / polyester foil, which is spirally coated
With overlap and with Al side inward.
Nominal aluminum thickness 0,009 mm
During and in contact with the Al-layer
there is a thin Cu-lina, 7x0,2 mm (0,22 mm²),
As connection conductor.
- E. Cabling
Two power supply pairs and a monitored
Signal pair are interconnected.
- F. Banding
Plastic band coated with overlap.

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G.	Jacket			
	Halogen free flameproof plastic compound			
	White coat			
	Nominal jacket thickness		1,0	mm
	Nominal outer dimension		10,5	mm
	Net weight per 100 m	ca	11	Kg

III. Electrical data at 20 °C

Leader Resistance (Single Leader):

Leader 1.0 mm² Max 19.5 Ω / km

Leader 0.8 mm (0.5 mm²) Max 37.5 Ω / km

Capacitance at 800 Hz (signal pairs) Nom 100 nF / km

Operating voltage Max 100 V AC

IV. JACKET SOLUTIONS FOR ISOLATION AND MANTEL

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 the nominal thickness.

Reaction to fire classification: Dca-s2,d2,a1

Vanderbilt DoP Reference: P1002V1

Datum: 27/07/2017

■ Ordering Information

Article Nr.	Description	Length	Weight
V54592-Z161-A100	Cable, Halogen-Free 100m Reel (Omnis)	100m	6,0Kg
V54592-Z162-A100	Cable, Halogen-Free 500m Reel (Omnis)	500m	42,0Kg