



E_{ca}

APPLICATION

TopData® VHOV-K (PAR-POS) & VOV-K (POS) is a flexible screened cable for signalling and control on industrial machinery facilities. The collective screen (VOV-K) and individual and collective screen (VHOV-K) make them especially suitable for areas where electrical noise protection is required.

CONSTRUCTION

Conductor

Electrolytic annealed copper, class 5 (flexible) according to EN 60228 and IEC 60228.

Insulation

Flexible PVC.

The standard identification of insulated conductors is the following:

2 x Pairs numbered (black + blue).

Other colours available on request.

Assembly of cores

Stranded conductors in pairs.

Individual screen (VHOV-K (PAR-POS))

Individual polyester (per pair) composed by aluminium / polyester tape with 100% coverage + tinned copper drain wire.

Assembly of pairs

Cabled in concentric layers.

Collective Screen

Aluminium / polyester tape with 100% coverage + tinned copper drain wire.

Outer sheath

Flexible PVC.

Black colour.

The ripcord allows you to gently tear the outer-sheath and remove it without damaging the screen.

CHARACTERISTICS



Electrical performance

Low voltage: 300/500 V.



Thermal performance

Maximum conductor temperature: 70°C.

Maximum short-circuit temperature: 160°C (max. 5 s).

Minimum service temperature: -30°C (fixed and protected installations).



Fire performance

Flame non-propagation according to EN 60332-1 / IEC 60332-1.

Reaction to fire CPR: E_{ca} according to EN 50575.

Low halogen emission. Chlorine < 15%.



Mechanical performance

Minimum bending radius: 5x cable diameter.

Impact resistance: AG2 Medium severity.



Environmental performance

Chemical & Oil resistance: Good.

UV Resistant according to UNE 211605.

Water resistance: AD5 Jets.



Installation conditions

Open Air.

Buried.

In conduit.

STANDARDS / COMPLIANCE



Based on

EN 50288-7



Standards and approvals

RoHS / CE



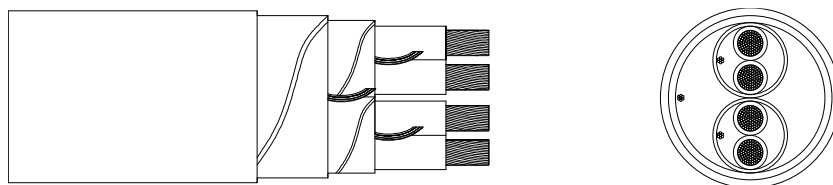
CPR (Construction Products Regulation)

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VHOV-K (PAR-POS) & VOV-K (POS) 300/500V

DIMENSIONS & ADMISSIBLE INTENSITIES



Tipo VOV-K

Cross-section (mm ²)	Diameter (mm)	Weight (Kg/km)	R 20°C (Ω/km)	Capacity between cond. (μF/km)
1 x 2 x 0,75	5,7	45	26,0	0,739
2 x 2 x 0,75	8,0	65	26,0	0,739
4 x 2 x 0,75	9,4	115	26,0	0,739
2 x 2 x 1	8,6	90	19,5	0,791
4 x 2 x 1	9,8	140	19,5	0,791
10 x 2 x 1	15,0	335	19,5	0,791
12 x 2 x 1	15,8	365	19,5	0,791
1 x 2 x 1,5	6,8	65	13,3	0,785
2 x 2 x 1,5	10,0	125	13,3	0,785
4 x 2 x 1,5	11,9	200	13,3	0,785
8 x 2 x 1,5	15,5	365	13,3	0,785
10 x 2 x 1,5	18,4	455	13,3	0,785
12 x 2 x 1,5	19,0	520	13,3	0,785

Tipo VHOV-K

Cross-section (mm ²)	Diameter (mm)	Weight (Kg/km)	R 20°C (Ω/km)	Capacity between cond. (μF/km)
2 x 2 x 0,75	8,8	90	26,0	0,739
4 x 2 x 0,75	10,4	145	26,0	0,739
8 x 2 x 0,75	13,6	260	26,0	0,739
12 x 2 x 0,75	16,6	370	26,0	0,739
16 x 2 x 0,75	17,9	470	26,0	0,739
2 x 2 x 1	9,4	105	19,5	0,791
3 x 2 x 1	9,7	130	19,5	0,791
4 x 2 x 1	10,8	165	19,5	0,791
10 x 2 x 1	16,4	370	19,5	0,791
1 x 2 x 1,5	6,8	65	13,3	0,785
2 x 2 x 1,5	10,3	140	13,3	0,785
4 x 2 x 1,5	13,0	225	13,3	0,785
8 x 2 x 1,5	17,0	415	13,3	0,785
10 x 2 x 1,5	20,2	510	13,3	0,785
12 x 2 x 1,5	21,1	600	13,3	0,785