

PVC control cables - shielded

LÜTZE-SILFLEX® QUAD N (C)Y (H05VVC4V5-K)



Application

- Machine and device construction, assembly lines, production lines, linking of control devices to conveyor systems
- These cables are especially suited for systems that are intended for export. Through the <HAR> UL CSA approval, these cables can be used virtually worldwide.
- The especially oil-resistant and flame-retardant PVC Jacket enables use even under difficult conditions.
- Especially for industrial environments with high interference potential, in machine, plant and device construction

Properties

- The overall shield of braided copper wires prevents both the interference of signals and measured values as well as the radiation of interfering signals.
- PVC Flame-retardant, self-extinguishing
- Outer jacket special-PVC TM5 according to HD 21.1
- Largely resistant to oils, greases, acids and bases
- Oil resistant according to HD 21.1, UL, CSA
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

Technical data

Voltage

U₀/U 300/500 V

UL/CSA 600 V

Test voltage 3000 V

Insulation resistance min. 20 MΩ × km

Temperature range <HAR>

moving -5 °C to +70 °C

fixed -40 °C to +70 °C

Temperature range UL/CSA

moving -5 °C to +90 °C

fixed -40 °C to +90 °C

Minimum bending radius according to VDE 0298 table 6

Burning behaviour Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2; IEC 60332-1; UL 1581 section VW-1 Flame-Test; CSA FT 1

Approbations H05VV5-F <HAR> HD21.13
UL-Style 2587 90 °C/600V
CSA AWM I

Design

- Bare copper braid, superfine strand according to DIN VDE 0295 class 5, IEC 60228 class 5
- Special PVC conductor insulation T12 according to HD 21.1
- Black conductors with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
G = with green/yellow ground conductor; × = without ground conductor
- Conductors stranded layers
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- PVC inside jacket
- Jacket special PVC TM5 according to HD21.1, matt, adhesion-free surface
- Jacket colour grey RAL 7001

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
0.75 mm²				
109582	(3G0.75)	8.8	12.5	5.2
109583	(4G0.75)	9.6	14.7	5.7
109584	(5G0.75)	10.3	17.2	6.9
109585	(7G0.75)	12.2	23.5	9.3
109587	(12G0.75)	14.5	35.4	16.2
1.0 mm²				
109568	(3G1.0)	9.3	14.1	6.3
109569	(4G1.0)	9.9	16.5	7.5
109570	(5G1.0)	10.9	19.5	8.8
109581	(7G1.0)	12.9	27.2	12.3
109571	(12G1.0)	15.4	40.5	18.9
1.5 mm²				
109572	(3G1.5)	10.4	18.0	8.0
109573	(4G1.5)	11.3	21.7	8.9
109574	(5G1.5)	12.6	26.7	10.9
109575	(7G1.5)	14.9	37.9	13.5
109576	(12G1.5)	17.6	53.8	32.2
2.5 mm²				
109577	(3G2.5)	12.0	24.6	10.9
109578	(4G2.5)	13.3	31.7	13.0
109579	(5G2.5)	14.6	38.3	18.3
109580	(7G2.5)	17.3	52.3	22.7

CE These products are in conformity with the EU Low Voltage Directive 2006/95/EC