

PVC control cables · unshielded

LÜTZE-SILFLEX® QUAD N (H05VV5-F)



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 the use even under difficult conditions.

Properties

- 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	
U ₀ /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 VV-1 Flame-Test; CSA FT 1
Approbations	
	H05VV5-F <HAR> HD21.13 UL-Style 2587 90 °C/600V CSA AWM I

Design

- Bare copper wire, multi-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
- 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
0.5 mm²				
108349	2×0.5	5.7	4.4	1.0
108350	3G0.5	6.1	5.5	1.4
108351	4G0.5	6.7	6.6	1.9
108352	5G0.5	7.5	8.3	2.4
108353	7G0.5	8.2	12.6	3.4
108354	12G0.5	10.9	18.2	5.8
108355	18G0.5	13.0	25.6	8.6
108356	25G0.5	15.2	35.8	12.0
0.75 mm²				
108401	2G0.75	6.1	5.6	1.5
108357	3G0.75	6.6	6.6	2.1
108358	4G0.75	7.3	8.1	2.9
108359	5G0.75	8.1	10.1	3.6
108360	7G0.75	8.9	15.4	5.0
108361	12G0.75	11.9	23.0	8.6
108362	18G0.75	14.2	32.4	13.0
108363	25G0.75	16.5	45.2	18.0
1.0 mm²				
108410	2×1.0	6.5	6.4	1.9
108364	3G1.0	6.9	7.7	2.9
108365	4G1.0	7.7	9.5	3.8
108366	5G1.0	8.5	11.7	4.8
108367	7G1.0	9.4	18.3	6.7
108368	12G1.0	12.6	26.8	11.5
108369	18G1.0	15.0	38.6	17.3
108370	25G1.0	17.5	53.7	24.0
1.5 mm²				
108391	2×1.5	7.6	9.1	2.9
108372	3G1.5	8.2	11.0	4.3
108373	4G1.5	9.1	13.9	5.8
108374	5G1.5	10.1	16.7	7.2
108375	7G1.5	11.1	26.0	10.1
108376	12G1.5	14.9	39.0	17.3
108377	18G1.5	17.9	55.9	25.9
108378	25G1.5	20.9	77.6	36.0
2.5 mm²				
108380	3G2.5	9.7	16.2	7.2
108381	4G2.5	10.7	20.5	9.6
108382	5G2.5	12.0	25.3	12.0
108383	7G2.5	13.2	38.9	16.8
108384	12G2.5	17.8	58.4	28.8
108385	18G2.5	21.3	83.6	43.2
108386	25G2.5	24.9	117.2	60.0

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