VOLTAN
POWERING CONNECTIONS • ENERGIZING SOLUTIONS

Quality Assurance Department

Test Report

Cable Type:	2 Pair KNX PVC	**Test Date:**	27/August/2026
Cable Part Number:	V2PKPV	**PO Number:**	VLTDFZ-013R1
Production Date:	15/06/2026	**Batch** No:	VLTDFZ-013R1

Physical Properties:

Item	Specification Requirement	Measured value
Inner conductor Material	CU	Yes
Insulation Conductor Diameter	0.800±0.010mm	0.801
Insulation colour	Red, Yellow, Black, White	Yes
Insulation Material	PE	Yes
Insulation Diameter	1.45±0.10mm	1.52
Insulation Concentricity	90%	94%
Lay Length	85mm, nominal	85
PET Width	15 MM	13
Aluminium Foil Width	15 MM	13
Drain Wire Material	TC	YES
Drain Wire Diameter	0.400±0.010mm	0.400
Rip Cord	3×200D	YES
Jacket Material	PVC	YES
Jacket Colour	Green（RAL6018）	YES
Jacket Diameter	6.00±0.20mm	6.13
Jacket Wall Thickness	1.10mm，nominal	1.13
Print Height	3.0±0.5mm	2.5
Jacket Print	V2PKPV-VOLTAN UK KNX Cable 2 Pair, Shielded Cable, PVC Jacket	

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Mechanical & Electrical Properties:

Item	Specification Requirement	Measured value
Cold Bend Test @ -15ºC, 4hours	No visible damage	Yes
Environmental testing	RoHS2.0	Yes
Conductor DCR @20℃, Max	37.5 Ohms/km	34.8
Conductor Capacitance	10-100 nF/km	61.6
Characteristic Impedance	100±25 Ohms (50-200KHz)	99
Inductance	450-850 μH/km（10kHz）	480
Rated Voltage	300V	Yes
Attenuation	≤9.5 dB（0.5-5MHz）	3.66
	≤20 dB（5-25MHz）	7.32

COMBUSTION TEST

Item	Specification Requirement	Measured value
Flame application time	60S max	60
Flame spread distance	425 MM Max	140
Burn time after removal from fire	S	12.3

Conclusion: PASS

Approved By: Song Wenfeng 27/August/2026

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Quality Assurance Department

Test Report

Cable Type:	2 Pair KNX LSZH	**Test Date:**	28/March/2026
Cable Part Number:	V2PKLZ	**PO Number:**	VLTDFZ-011
Production Date:	23/02/2026	**Batch** No:	VLTDFZ-011

Physical Properties:

Item	Specification Requirement	Measured value
Inner conductor Material	CU	Yes
Insulation Conductor Diameter	0.800±0.010mm	0.81
Insulation colour	Red, Yellow, Black, White	Yes
Insulation Material	PE	Yes
Insulation Diameter	1.50±0.10mm	1.52
Insulation Concentricity	90%	94%
Lay Length	85mm, nominal	85
PET Width	15 MM	13
Aluminium Foil Width	15 MM	13
Drain Wire Material	TC	YES
Drain Wire Diameter	0.400±0.010mm	0.40
Rip Cord	3×200D	YES
Jacket Material	PVC	YES
Jacket Colour	Green（RAL6018）	YES
Jacket Diameter	6.00±0.20mm	6.13
Jacket Wall Thickness	1.10mm，nominal	1.13
Print Height	3.0±0.5mm	2.5
Jacket Diameter	V2PKLZ-VOLTAN UK KNX Cable 2 Pair, Shielded Cable, LSZH Jacket	

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Mechanical & Electrical Properties:

Item	Specification Requirement	Measured value
Cold Bend Test @ -15ºC, 4hours	37	Yes
Environmental testing	RoHS2.0	Yes
Conductor DCR @20℃, Max	37.5 Ohms/km	34.8
Conductor Capacitance	10-100 nF/km	61.6
Characteristic Impedance	10-100 nF/km	99
Inductance	450-850 μH/km（10kHz）	480
Rated Voltage	300V	yes
Attenuation	≤9.5 dB（0.5-5MHz）	3.66
	≤20 dB（5-25MHz）	7.32

COMBUSTION TEST

Item	Specification Requirement	Measured value
Flame application time	60S max	60
Flame spread distance	425 MM Max	140
Burn time after removal from fire	S	12.3

Conclusion: Pass

Approved By: Song Wenfeng **Date: 28/March/2026**