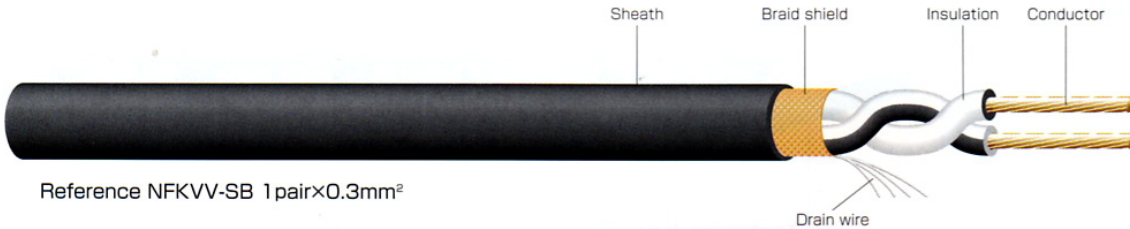


NFKVV-SB

The Twisted Pair Data Transmission Cable with Screen Braiding



Reference NFKVV-SB 1 pair×0.3mm²

Sheath colour available in Black

Cold Resistant -25°C

Heat Resistant +80°C

Wearing Resistant

Oil Resistant

Application

NFKVV-SB twisted pair data transmission cables can be used in the electronics of computer systems, electronic control equipment, office equipment, etc.. Due to its properties, it is oil, heat and cold resistance that make it suitable for both indoor and outdoor usage.

Cable Makeup

Fine wire stranded tinned copper wire, PVC core insulation, Cores twisted in pairs. Copper braid screening with drain wire protects against external interference. Sheath of special PVC based-compound with enhance oil resistance.

Special Feature

Screen braiding plus twisted pairs ensure maximum interference suppression of individual signals. Its flexibility and properties makes it suitable for harsh environment where space is a constraint.


Technical Data

 Temperature Range / -25°C to +80°C

 Insulation Resistance / >300MΩ/km(30°C)

 Working Voltage / Up to 100V

 Capacitance / <140nF/Km

 Test Voltage / 100V/1000V

< Electrical Characteristics >

Test content	Size/unit	0.2mm ²	0.3mm ²	0.5mm ²	0.75mm ²	1.25mm ²
Composition of conductor	mm	7/0.18	7/0.26	30/0.32	30/0.18	50/0.18
Diameter of Insulation	mm	1.05	1.3	1.6	2.1	2.7
Test voltage	V/min	100	100	1000	1000	1000
Conductor resistance 30°C	Ω/km	108	54	35.5	25.5	16.5

Cable Identification

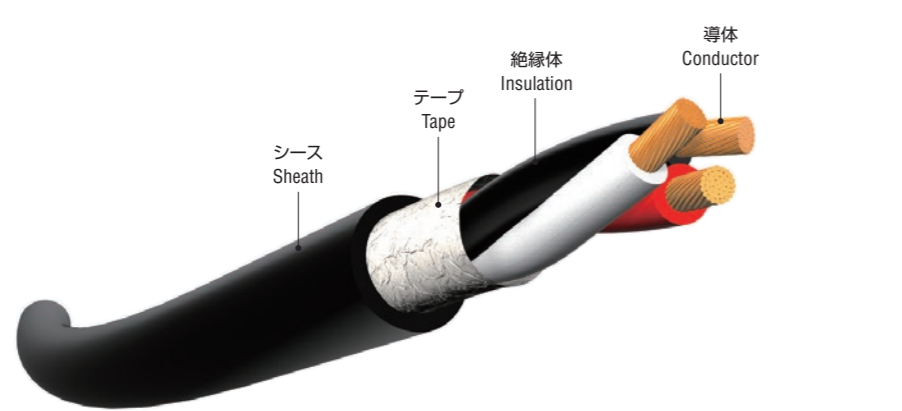
Pair	Colour	Pair	Colour
1	White x White/Black	11	Grey X Grey/Black
2	Red x Red/Black	12	Light Green x Light Green/Black
3	Green x Green/Black	13	Cream x Cream/Black
4	Blue x Blue/Grey	14	White/Blue x White/Red
5	Yellow x Yellow/Black	15	Black/Light Blue x Black/Red
6	Brown x Brown/Black	16	Green/Light Blue x Green/Red
7	Pink x Pink/Black	17	Yellow/Blue x Yellow/Red
8	Light Blue x Light Blue/Black	18	Brown/Blue x Brown/Red
9	Orange x Orange/Black	19	Pink/Blue/Pink/Red
10	Purple x Purple/Black	20	Light Blue/Blue x Light Blue/Red

NFKVV-SB 100V

Part Number	Conductor			Insulation		Drain wire mm	No. of Pairs	Sheath		Approx. Weight Kg/Km						
	Nominal Sectional Area mm ²	Composition of Conductor mm	Diameter mm	Thickness mm	Diameter mm			Thickness of Sheath mm	Approx. Overall Diameter mm							
0000 9002001	0.2	7/0.18	0.54	0.25	1.05	12/0.18	1	1.0	4.7	32						
0000 9002002							2	1.0	5.8	45						
0000 9002003							3	1.0	6.1	51						
0000 9002004							4	1.0	6.7	63						
0000 9002005							5	1.0	7.0	71						
0000 9002006							6	1.0	7.3	76						
0000 9002007							7	1.0	7.3	80						
0000 9002008							8	1.1	8.5	90						
0000 9002010							10	1.1	9.0	116						
0000 9002012							12	1.1	9.5	120						
0000 9002015							15	1.1	10.5	152						
0000 9002018							18	1.2	12.0	170						
0000 9002020							20	1.2	12.5	192						
0000 9002025							25	1.3	13.5	220						
0000 9002030	30	1.4	13.8	255												
0000 9002032	32	1.4	14.0	280												
0000 9003001	0.3	7/0.26	0.78	0.25	1.3	12/0.18	1	1.0	5.3	40						
0000 9003002							2	1.0	6.6	60						
0000 9003003							3	1.0	7.0	73						
0000 9003004							4	1.0	7.6	86						
0000 9003005							5	1.1	8.6	105						
0000 9003006							6	1.2	9.6	120						
0000 9003007							7	1.2	9.6	135						
0000 9003008							8	1.2	10.4	150						
0000 9003010							10	1.2	11.0	170						
0000 9003012							12	1.3	12.0	205						
0000 9003015							15	1.3	12.8	235						
0000 9003018							18	1.4	14.0	285						
0000 9003020							20	1.4	15.3	300						
0000 9003025							25	1.5	16.5	380						
0000 9003030	30	1.5	17.0	440												
0000 9003032	32	1.5	17.7	465												
0000 9005001	0.5	30/0.32	0.96	0.3	1.6	12/0.18	1	1.0	6.0	51						
0000 9005002							2	1.1	8.0	80						
0000 9005003							3	1.1	9.0	100						
0000 9005004							4	1.2	10.0	130						
0000 9005005							5	1.2	11.0	150						
0000 9005006							6	1.3	12.0	158						
0000 9005007							7	1.3	12.0	165						
0000 9005008							8	1.3	12.5	190						
0000 9005010							10	1.4	13.5	220						
0000 9005012							12	1.4	14.0	260						
0000 9005015							15	1.4	16.0	340						
0000 9005018							18	1.4	17.5	375						
0000 9005020							20	1.5	17.5	435						
0000 9005025							25	1.5	19.5	495						
0000 9005030	30	1.6	20.5	540												
0000 9007501	0.75	30/0.18	1.1	0.5	2.1	12/0.18	1	1.0	6.0	60						
0000 9007502							2	1.1	10.0	113						
0000 9007503							3	1.1	10.6	141						
0000 9007504							4	1.3	12.0	182						
0000 9007505							5	1.5	13.5	223						
0000 9007506							6	1.5	15.0	265						
0000 9007507							7	1.5	15.0	287						
0000 9007508							8	1.5	15.5	313						
0000 9007510							10	1.6	17.2	392						
0000 9007512							12	1.6	18.2	445						
0000 9007515							15	1.6	21.5	510						
0000 9007520							20	1.7	23.0	600						
0000 9012502							1.25	50/0.18	1.5	0.6	2.7	12/0.18	2	1.1	8.1	85
0000 9012503													3	1.1	12.0	154
0000 9012504	4	1.2	12.5	200												
0000 9012505	5	1.2	14.4	250												
0000 9012506	6	1.3	15.2	299												
0000 9012507	7	1.5	16.8	364												
0000 9012510	10	1.5	16.8	400												
0000 9012512	12	1.5	22.0	510												
0000 9012515	15	1.6	25.0	750												
0000 9012520	20	1.7	28.0	990												

RO-FLEX 2464-1061T

For fixed installation. Internal wiring for electronic components and outer connection.



シース色 : 黒
Sheath color : Black

例/Reference RO-FLEX 2464-1061T 0.34mm²×3c

ケーブル特性 Characteristics of cable	耐熱性 Heat resistance	耐寒性 Cold resistance	耐油性 Oil resistance	難燃性 Flame retardant	耐屈曲性 Flexing	耐ノイズ性 Noise resistance	配線 Wiring	RoHS指令 RoHS Directive	アウトガス対応 Outgas
		+80°C	-15°C	C	C	C	C	機器内配線	適合 Conformity

※ケーブル特性については、巻末の技術データを参照して下さい。Refer to technical data.

用途 Application

1. 固定部
2. 信号線
3. 通信線

特長 Characteristics

CE, UL, c-ULに適合しており1つのケーブルで国内及び多国の輸出に使用できます。又、設計の簡素化と在庫の低減につながり従来よりも効率の良い設計管理と在庫管理に最適です。このケーブルは「低電圧指令」2014/35/EUに適合しています。又、「RoHS指令」2011/65/EUに適合しています。

RO-FLEX 2464-1061T series enable to simplify the design and efficient storage for the reduction of costs due to CE, UL and c-UL approvals.
The product is in conformity to Directive 2014/35/EU("Low voltage directive").
*Conformity to RoHS Directive 2011/65/EU"

■認証 APPROVAL

項目 Item		CE	UL	c-UL
認証 Approval	認証番号 Certificate number	J50010985	E194236	E194236
	適合規格 Standard	VDE0812	UL758	CSA C22.2 No.210
	ケーブルデザイン Cable designation	LYYY	2464	AWM I Group A
特性 Characteristics	公称電圧 Rated voltage	350V Peak	300V	300V
	耐電圧 Test voltage	2500V/5分		
	絶縁抵抗 Insulation resistance	200MΩ・km(at 20°C)		
	使用温度 Temperature range	-15°C~70°C	80°C	80°C
	曲げ半径 Minimum bending for radius	6D D=ケーブル外径/Overall diameter		
難燃性 Flame retardant	EN 50265-2-1 (IEC 60332-1)	VW-1	FT1	
構造 Construction	導体 Conductor	IEC 60228 Class 5	ASTM B-3	
	絶縁/識別 Insulation/Core identification	耐熱PVC/「識別3,4」参照 Heat resistant PVC/See core identification		
	シース/シース色 Sheath/Sheath color	耐熱PVC/黒 Heat resistant PVC/Black		

認証
Approval

CE

TÜV

c-UL us

RoHS指令
(2011/65/EU) 適合
Conformity of RoHS directive
(2011/65/EU)

化学物質 Chemical substances	含有率 ppm Content ppm
鉛 Lead	<1000
水銀 Mercury	<1000
カドミウム Cadmium	<100
六価クロム Hexavalent Chromium	<1000
PBB	<1000
PBDE	<1000

ケーブル構造 CABLE CONSTRUCTION

商品番号 Part number	導体断面積 Nominal cross sectional area mm ²	導体構成/外径 Conductor composition/ (diameter) mm	絶縁外径 Diameter of insulation mm	芯数 No. of cores/ pairs 芯/対	仕上外径 Approx.Overall diameter mm	概算質量 Approx.mass kg/km	導体抵抗 Conductor resistance Ω/km	許容電流 (IEC60364-5-52) Current Carrying Capacities(AI30°C) A
1011 0001401	0.14mm ² /26AWG	8/0.15 (0.5mm)	1.0	1P	3.7	16	132	3.6
1011 0001402				2P	5.1	31		2.7
1011 0001403				3P	5.4	35		2.3
1011 0001404				4P	5.8	41		2.0
1011 0001405				5P	6.3	49		1.9
1011 0001406				6P	6.8	57		1.8
1011 0001407				7P	6.8	57		1.6
1011 0001408				8P	7.2	67		1.5
1011 0001410				10P	8.3	79		1.4
1011 0001412				12P	8.6	89		1.3
1011 0001416				16P	9.6	117		1.2
1011 0001418				18P	10.1	125		1.1
1011 0001420				20P	10.8	144		1.1
1011 0001425				25P	12.1	174		1.0
1011 0001430				30P	12.8	201		0.9
1011 0002501	0.25mm ² /24AWG	14/0.15 (0.65mm)	1.15	1P	4.0	20	75.4	5.2
1011 0002502				2P	5.6	40		3.9
1011 0002503				3P	5.9	46		3.2
1011 0002504				4P	6.4	55		2.9
1011 0002505				5P	7.0	66		2.7
1011 0002506				6P	7.8	80		2.6
1011 0002507				7P	7.8	82		2.3
1011 0002508				8P	8.2	95		2.2
1011 0002510				10P	9.5	113		2.0
1011 0002512				12P	9.8	128		1.9
1011 0002516				16P	10.9	167		1.7
1011 0002518				18P	11.5	180		1.6
1011 0002520				20P	12.3	206		1.5
1011 0002525				25P	13.7	248		1.4
1011 0002530				30P	14.7	295		1.2
1011 0003401	0.34mm ² /22AWG	19/0.15 (0.8mm)	1.3	1P	4.3	24	55.4	6.0
1011 0003402				2P	6.1	49		4.5
1011 0003403				3P	6.5	56		3.8
1011 0003404				4P	7.0	68		3.4
1011 0003405				5P	7.9	84		3.1
1011 0003406				6P	8.5	99		3.0
1011 0003407				7P	8.5	101		2.7
1011 0003408				8P	9.3	122		2.6
1011 0003410				10P	10.6	144		2.3
1011 0003412				12P	11.0	164		2.2
1011 0003416				16P	12.3	214		1.9
1011 0003418				18P	12.9	230		1.8
1011 0003420				20P	13.8	263		1.8
1011 0003425				25P	15.4	317		1.6
1011 0003430				30P	16.4	375		1.4
1010 0001402	0.14mm ² /26AWG	8/0.15 (0.5mm)	1.0	2c	3.7	16	132	3.6
1010 0001403				3c	3.9	19		3.1
1010 0001404				4c	4.1	22		2.7
1010 0001405				5c	4.4	25		2.4
1010 0001406				6c	4.7	29		2.3
1010 0001407				7c	5.1	33		2.1
1010 0001408				8c	5.4	37		2.0
1010 0001410				10c	5.7	40		1.9
1010 0001412				12c	5.9	45		1.8
1010 0001416				16c	6.4	56		1.5
1010 0001418				18c	6.7	62		1.4
1010 0001420				20c	7.0	68		1.4
1010 0001425				25c	7.9	83		1.3
1010 0001430				30c	8.3	96		1.2
1010 0002502				0.25mm ² /24AWG	14/0.15 (0.65mm)	1.15		2c
1010 0002503	3c	4.2	24				4.4	
1010 0002504	4c	4.5	28				3.9	
1010 0002505	5c	4.8	33				3.5	
1010 0002506	6c	5.2	38				3.2	
1010 0002507	7c	5.6	44				3.0	
1010 0002508	8c	5.9	50				2.9	
1010 0002510	10c	6.3	54				2.7	
1010 0002512	12c	6.5	62				2.6	
1010 0002516	16c	7.1	78				2.2	
1010 0002518	18c	7.7	90				2.1	
1010 0002520	20c	8.0	99				2.0	
1010 0002525	25c	9.0	120				1.9	
1010 0002530	30c	9.5	139				1.7	
1010 0003402	0.34mm ² /22AWG	19/0.15 (0.8mm)	1.3				2c	4.3
1010 0003403				3c	4.5	28	5.1	
1010 0003404				4c	4.8	34	4.5	
1010 0003405				5c	5.2	40	4.1	
1010 0003406				6c	5.6	47	3.8	
1010 0003407				7c	6.1	54	3.5	
1010 0003408				8c	6.5	61	3.4	
1010 0003410				10c	6.9	67	3.1	
1010 0003412				12c	7.1	76	3.0	
1010 0003416				16c	8.0	100	2.6	
1010 0003418				18c	8.4	111	2.4	
1010 0003420				20c	9.0	127	2.3	
1010 0003425				25c	9.9	149	2.2	
1010 0003430				30c	10.6	178	2.0	

●販売条長 : 153m Standard length : 153m (500Ft)

※本カタログの許容電流値はエアフリー・周囲温度30°Cでの値です。周囲温度によって、下記の補正係数を乗じてください。
※The current carrying capacities of this catalog is a value at the ambient temperature 30°C in the air.

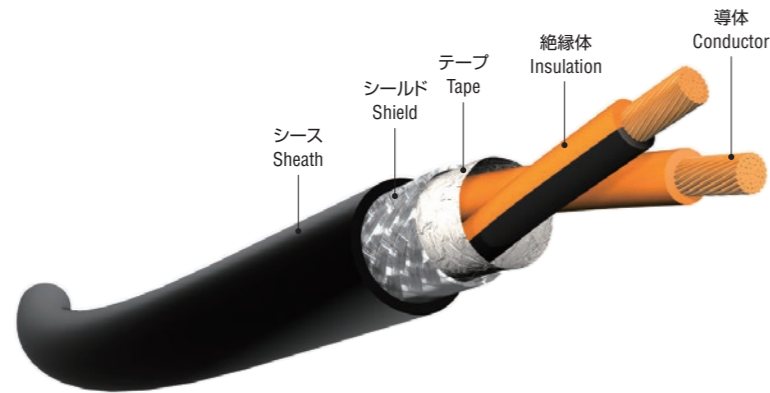
■温度減少係数 Temperature Correction Factor

温度(°C) Ambient temperature	10	11~15	16~20	21~25	26~30	31~35	36~40	41~45	46~50	51~55	56~60
係数 Correction factor	1.22	1.17	1.12	1.06	1.00	0.94	0.87	0.79	0.71	0.61	0.50

RO-FLEX 2464-1061TS

For fixed installaiton. Screened wires. Internal wiring for electronic components and outer connection.

EMC対策/To keep the EMC



シース色：黒
Sheath color : Black

例/Reference RO-FLEX 2464-1061TS 0.14mm²×1P

ケーブル特性 Characteristics of cable	耐熱性 Heat resistance	耐寒性 Cold resistance	耐油性 Oil resistance	難燃性 Flame retardant	耐屈曲性 Flexing	耐ノイズ性 Noise resistance	配線 Wiring	RoHS指令 RoHS Directive	アウトガス対応 Outgas
		+80℃	-15℃	C	C	C	A	機器内配線	適合 Conformity

※ケーブル特性については、巻末の技術データを参照して下さい。Refer to technical data.

用途 Application

1. 固定部
2. 信号線
3. 通信線
4. 耐ノイズ環境

1. Fixed installation
2. Signal line
3. Communication line
4. Noise resistance

特長 Characteristics

CE, UL, c-ULに適合しており1つのケーブルで国内及び多国の輸出に使用できます。又、設計の簡素化と在庫の低減につながり従来よりも効率の良い設計管理と在庫管理に最適です。このケーブルは「低電圧指令」2014/35/EUに適合しています。又、「RoHS指令」2011/65/EUに適合しています。

RO-FLEX 2464-1061TS series enable to simplify the design and efficient storage for the reduction of costs due to CE, UL and c-UL approvals.
The product is in conformity to Directive 2014/35/EU("Low voltage directive").
*Conformity to RoHS Directive 2011/65/EU"

■認証 APPROVAL

項目 Item		CE	UL	c-UL
認証 Approval	認証番号 Certificate number	J50011069	E194236	E194236
	適用規格 Standard	VDE0812	UL758	CSA C22.2 No.210
	ケーブルデザイン Cable designation	L1YCY	2464	AWM I Group A
特性 Characteristics	公称電圧 Rated voltage	350V Peak	300V	300V
	耐電圧 Test voltage	2500V/5分		
	絶縁抵抗 Insulation resistance	200MΩ・km(at 20℃)		
	使用温度 Temperature range	-15℃~70℃	80℃	80℃
	曲げ半径 Minimum bending for radius	6D D=ケーブル外径/Overall diameter		
構造 Construction	難燃性 Flame retardant	EN 50265-2-1 (IEC 60332-1)	VW-1	FT1
	導体 Conductor	IEC 60228 Class5	ASTM B-3	
	絶縁/識別 Insulation/Core identification	耐熱PVC/[識別4]参照 Heat resistant PVC/See core identification		
	シールド Shield	編組シールド 0.12TAC Braid shield 0.12TAC		
	シース/シース色 Sheath/Sheath color	耐熱PVC/黒 Heat resistant PVC/Black		



RoHS指令 (2011/65/EU) 適合 Conformity of RoHS directive (2011/65/EU)	
化学物質 Chemical substances	含有率 ppm Content ppm
鉛 Lead	<1000
水銀 Mercury	<1000
カドミウム Cadmium	<100
六価クロム Hexavalent Chromium	<1000
PBB	<1000
PBDE	<1000

ケーブル構造 CABLE CONSTRUCTION

商品番号 Part number	導体断面積 Nominal cross sectional area mm ²	導体構成/(外径) Conductor composition/ (diameter) mm	絶縁外径 Diameter of insulation mm	対数 No. of pairs 対	仕上外径 Approx.Overall diameter mm	概算質量 Approx.mass kg/km	導体抵抗 Conductor resistance Ω/km	許容電流 (IEC60364-5-52) Current Carrying Capacities(At30℃) A
1011 1001401	0.14mm ² /26AWG	8/0.15 (0.5mm)	1.0	1P	4.2	26	132	3.6
1011 1001402				2P	5.6	46		2.7
1011 1001403				3P	5.9	51		2.3
1011 1001404				4P	6.3	59		2.0
1011 1001405				5P	6.8	67		1.9
1011 1001406				6P	7.5	81		1.8
1011 1001407				7P	7.5	81		1.6
1011 1001408				8P	7.9	92		1.5
1011 1001410				10P	9.0	107		1.4
1011 1001412				12P	9.3	119		1.3
1011 1001416				16P	10.1	146		1.2
1011 1001418				18P	10.8	161		1.1
1011 1001420				20P	11.3	177		1.1
1011 1001425				25P	12.6	210		1.0
1011 1001430	30P	13.5	245	0.9				
1011 1002501	0.25mm ² /24AWG	14/0.15 (0.65mm)	1.15	1P	4.5	32	75.4	5.2
1011 1002502				2P	6.1	56		3.9
1011 1002503				3P	6.4	64		3.2
1011 1002504				4P	6.9	75		2.9
1011 1002505				5P	7.7	90		2.7
1011 1002506				6P	8.3	103		2.6
1011 1002507				7P	8.3	105		2.3
1011 1002508				8P	8.9	123		2.2
1011 1002510				10P	10.0	141		2.0
1011 1002512				12P	10.5	162		1.9
1011 1002516				16P	11.4	200		1.7
1011 1002518				18P	12.2	220		1.6
1011 1002520				20P	12.8	243		1.5
1011 1002525				25P	14.2	289		1.4
1011 1002530	30P	15.2	339	1.2				
1011 1003401	0.34mm ² /22AWG	19/0.15 (0.8mm)	1.3	1P	4.8	36	55.4	6.0
1011 1003402				2P	6.6	67		4.5
1011 1003403				3P	7.0	77		3.8
1011 1003404				4P	7.7	92		3.4
1011 1003405				5P	8.4	108		3.1
1011 1003406				6P	9.2	128		3.0
1011 1003407				7P	9.2	130		2.7
1011 1003408				8P	9.8	150		2.6
1011 1003410				10P	11.1	175		2.3
1011 1003412				12P	11.5	197		2.2
1011 1003416				16P	12.8	251		1.9
1011 1003418				18P	13.6	275		1.8
1011 1003420				20P	14.3	305		1.8
1011 1003425				25P	15.9	364		1.6
1011 1003430	30P	16.9	425	1.4				

●販売条長：153m Standard length：153m (500Ft)

※本カタログの許容電流値はエアフリー・周囲温度30℃での値です。周囲温度によって、下記の補正係数を乗じてください。
※The current carrying capacities of this catalog is a value at the ambient temperature 30℃ in the air.

■温度減少係数 Temperature Correction Factor

温度(℃) Ambient temperature	10	11~15	16~20	21~25	26~30	31~35	36~40	41~45	46~50	51~55	56~60
係数 Correction factor	1.22	1.17	1.12	1.06	1.00	0.94	0.87	0.79	0.71	0.61	0.50