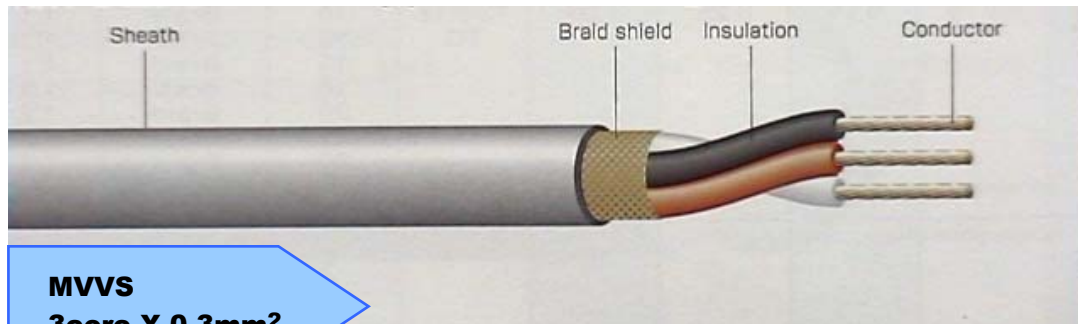


## The Data Transmission Cable with Screen Braiding



**MVVS**  
**3core X 0.3mm<sup>2</sup>**

Sheath colour available in Grey or Black

**Cold Resistant -25°C**

**Heat Resistant +60°C**

### Application

MVVS data transmission cables are used in the electronics of computer systems, electronic control equipment, etc. Copper screen braiding protects against high frequency interference. It is suitable for free, non-continuous movement without strain relief.

### Cable Makeup

Fine wire stranded bare copper wire, PVC core insulation, cores with coloured identification, Screening is 0.12 tinned annealed copper wire, outer sheath of special PVC based-compound

### Special Feature


The sheath can be removed easily and due its flexibility and distinguish colour identification, it ease installation and reduce time.

### Technical Data

 Temperature Range / -25°C to +60°C

 Test Voltage / 100V/1000V

 Working Voltage / Up to 100V

 Insulation Resistance / 5MΩ/km(30°C)

### < Electrical Characteristics >

Test content	Size/unit	0.18mm <sup>2</sup>	0.25mm <sup>2</sup>	0.3mm <sup>2</sup>	0.5mm <sup>2</sup>	0.75mm <sup>2</sup>	1.25mm <sup>2</sup>	2.0mm <sup>2</sup>
Composition of conductor	mm	7/0.18	14/0.15	12/0.18	20/0.18	30/0.18	50/0.18	37/0.26
Diameter of Insulation	mm	1.05	1.25	1.5	2.0	2.1	2.7	3.0
Test voltage	V/min	100	100	100	100	1000	1000	1000
Conductor resistance 30°C	Ω/km	108	76	61.9	37.1	24.8	14.9	9.5
Insulation resistance 30°C	MΩ/km	5	5	5	5	5	5	5

## Cable Identification

< For Black Sheath >

Core	Colour	Core	Colour	Core	Colour	Core	Colour
1	White	11	Purple	21	Brown *	31	Blue Δ
2	Red	12	Grey	22	Pink *	32	Yellow Δ
3	Black	13	Light Green	23	Light Blue *	33	Brown Δ
4	Green	14	Cream	24	Orange *	34	Pink Δ
5	Blue	15	White *	25	Purple *	35	Light Blue Δ
6	Yellow	16	Red *	26	Grey *	36	Orange Δ
7	Brown	17	Black *	27	Light Green *	37	Purple Δ
8	Pink	18	Green *	28	Cream *	38	Grey Δ
9	Light Blue	19	Blue *	29	White Δ	39	Light Green Δ
10	Orange	20	Yellow *	30	Green Δ	40	Cream Δ

\* ... Mark **Black** print mark      Δ ... Mark **Red** print mark

Cable Identification list for Grey Sheath can be obtained from Sales department

## MVVS 100V

Part Number	Conductor			Insulation		No. of Cores	Sheath		Approx. Weight Kg/Km					
	Nominal Sectional Area mm <sup>2</sup>	Composition Of Conductor mm	Diameter mm	Thickness mm	Diameter mm		Thickness of Sheath mm	Approx. Overall Diameter mm						
0000 @001802	<b>0.18</b>	7/0.18	0.54	0.25	1.05	2	0.4	3.0	16					
0000 @001803						3	0.6	3.5	23					
0000 @001804						4	0.7	4.2	30					
0000 @001806						6	0.9	5.8	48					
0000 @001808						8	0.9	6.0	55					
0000 @001810						10	0.9	6.5	66					
0000 @001812						12	0.9	6.8	73					
0000 @001816						16	1.1	7.8	93					
0000 @001820						20	1.1	8.0	110					
0000 @001825						25	1.2	9.1	130					
0000 @001830						30	1.2	9.3	142					
0000 @001840						40	1.3	11.0	199					
0000 @001850						50	1.5	12.0	238					
0000 @001860						60	1.8	13.5	270					
0000 @002502	<b>0.25</b>	14/0.15	0.65	0.3	1.25	2	0.8	4.6	29					
0000 @002503						3	0.8	4.8	40					
0000 @002504						4	0.9	5.5	48					
0000 @002506						6	0.9	6.0	57					
0000 @002508						8	0.9	6.8	70					
0000 @002510						10	1.0	7.5	83					
0000 @002512						12	1.0	7.7	93					
0000 @002516						16	1.1	8.5	115					
0000 @002520						20	1.2	9.8	132					
0000 @002525						25	1.3	11.1	170					
0000 @002540						40	1.3	12.9	267					
0000 @003002						<b>0.3</b>	12/0.18	0.7	0.4	1.5	2	0.8	5.2	36
0000 @003003											3	0.8	5.4	48
0000 @003004											4	1.0	6.2	58
0000 @003005	5	1.0	6.7	61										
0000 @003006	6	1.0	7.1	68										
0000 @003008	8	1.0	7.8	84										
0000 @003010	10	1.0	8.5	100										
0000 @003012	12	1.2	9.1	112										
0000 @003016	16	1.3	10.3	138										
0000 @003020	20	1.3	11.0	158										
0000 @003030	30	1.3	12.5	243										
0000 @003040	40	1.5	14.5	320										
0000 @005002	<b>0.5</b>	20/0.18	1.0	0.5	2.0						2	1.0	6.4	26
0000 @005003											3	1.0	6.8	62
0000 @005004						4	1.0	7.3	72					
0000 @005006						6	1.0	8.5	81					
0000 @005007						7	1.0	8.5	100					
0000 @005008						8	1.0	9.5	108					
0000 @005010						10	1.2	10.6	129					
0000 @005012						12	1.2	11.0	148					
0000 @005016						16	1.3	13.0	168					
0000 @005020						20	1.5	13.7	216					
0000 @005030						30	1.5	16.0	387					

Note : @ will be replaced by 7 for Black Sheath; @ will be replaced by 8 for Grey Sheath

**MVVS 300V**

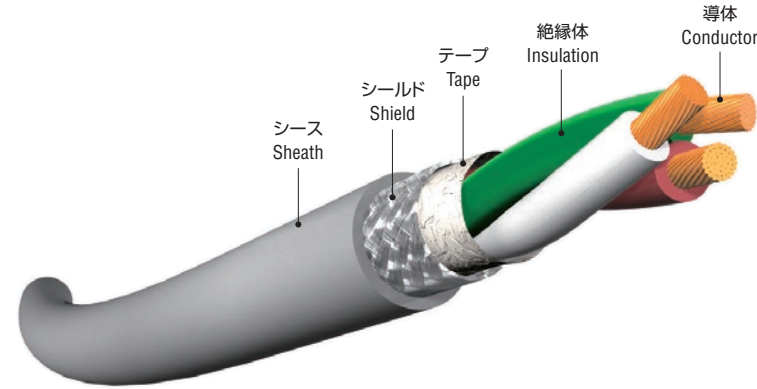
Part Number	Conductor			Insulation		No. of Cores	Sheath		Approx. Weight Kg/Km					
	Nominal Sectional Area mm <sup>2</sup>	Composition of Conductor mm	Diameter mm	Thickness mm	Diameter mm		Thickness of Sheath mm	Approx. Overall Diameter mm						
0000 @007502	<b>0.75</b>	<b>30/0.18</b>	<b>1.1</b>	<b>0.5</b>	<b>2.1</b>	2	1.0	6.9	67					
0000 @007503						3	1.0	7.2	78					
0000 @007504						4	1.0	8.0	94					
0000 @007505						5	1.2	8.9	106					
0000 @007506						6	1.2	9.5	119					
0000 @007507						7	1.2	9.5	131					
0000 @007508						8	1.2	10.4	150					
0000 @007510						10	1.3	11.5	191					
0000 @007512						12	1.3	12.1	213					
0000 @007514						14	1.3	12.8	248					
0000 @007516						16	1.5	13.7	275					
0000 @007520						20	1.5	15.0	335					
0000 @007524						24	1.5	16.0	400					
0000 @007526						26	1.5	16.5	430					
0000 @007530						30	1.7	17.5	500					
0000 @012502	<b>1.25</b>	<b>50/0.18</b>	<b>1.5</b>	<b>0.6</b>	<b>2.7</b>	2	1.0	8.1	95					
0000 @012503						3	1.0	8.5	114					
0000 @012504						4	1.0	9.3	121					
0000 @012505						5	1.2	10.4	165					
0000 @012506						6	1.2	11.0	186					
0000 @012507						7	1.2	11.0	204					
0000 @012508						8	1.4	12.0	234					
0000 @012510						10	1.4	13.5	287					
0000 @012512						12	1.6	14.3	334					
0000 @012516						16	1.6	16.5	419					
0000 @012520						20	1.6	18.5	500					
0000 @012530						30	1.7	21.5	735					
0000 @020002						<b>2.0</b>	<b>37/0.26</b>	<b>1.8</b>	<b>0.6</b>	<b>3.0</b>	2	1.0	8.7	115
0000 @020003											3	1.0	9.0	135
0000 @020004											4	1.0	10.0	170
0000 @020005	5	1.2	11.5	203										
0000 @020006	6	1.2	12.5	234										
0000 @020007	7	1.4	12.5	258										
0000 @020008	8	1.4	13.5	295										
0000 @020010	10	1.6	15.0	362										
0000 @020012	12	1.6	15.5	432										

Note : @ will be replaced by 7 for Black Sheath; @ will be replaced by 8 for Grey Sheath

# RO-FLEX 1000TS

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

## EMC対策/To keep the EMC



シース色 : 灰  
Sheath color : Grey

例/Reference RO-FLEX 1000TS 0.25mm<sup>2</sup>×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
		+105°C	-15°C	A	B	B	B	機器内配線 及び外部接続	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 1000TS 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	A01V2V5-F	2464	AWM I/II Group A/B
特性 Characteristics	公称電圧 Rated voltage	100/100V	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~90°C	80°C	105°C
	曲げ半径 Minimum bending for radius	6D D=ケーブル外径/Overall diameter		
構造 Construction	導体 Conductor	IEC 60228 Class5	ASTM B-3	
	絶縁/識別 Insulation/Core identification	耐熱PVC/[識別1]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	耐油・耐熱PVC/灰 Oil and Heat resistant PVC/Grey		

認証  
Approval



## ケーブル構造 CABLE CONSTRUCTION

商品番号 Part number	導体断面積 Nominal cross sectional area mm <sup>2</sup>	導体構成/外径 Conductor composition/ (diameter) mm	絶縁外径 Diameter of insulation mm	芯数 No. of cores 芯	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°C) A
1000 1002502	0.25mm <sup>2</sup> /24AWG	14/0.15 (0.65mm)	1.45	2c	5.3	42	75.4	4.0
1000 1002503				3c	5.5	46		3.5
1000 1002504				4c	5.9	53		3.3
1000 1002505				5c	6.3	62		3.0
1000 1002506				6c	6.8	71		2.8
1000 1002507				7c	7.3	82		2.8
1000 1002508				8c	7.9	94		2.5
1000 1002510				10c	8.4	99		2.5
1000 1002512				12c	8.6	108		2.3
1000 1002516				16c	9.6	137		2.0
1000 1002518				18c	10.1	151		2.0
1000 1002520				20c	10.7	169		2.0
1000 1002525				25c	11.7	194		1.5
1000 1002530				30c	12.5	226		1.5
1000 1003402	0.34mm <sup>2</sup> /22AWG	19/0.15 (0.8mm)	1.6	2c	5.6	47	55.4	4.8
1000 1003403				3c	5.9	52		4.2
1000 1003404				4c	6.3	62		3.9
1000 1003405				5c	6.7	71		3.6
1000 1003406				6c	7.2	83		3.3
1000 1003407				7c	8.0	98		3.3
1000 1003408				8c	8.5	110		3.0
1000 1003410				10c	9.2	119		3.0
1000 1003412				12c	9.5	132		2.7
1000 1003416				16c	10.3	161		2.4
1000 1003418				18c	11.0	183		2.4
1000 1003420				20c	11.5	200		2.4
1000 1003425				25c	12.8	235		1.8
1000 1003430				30c	13.7	275		1.8

●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