

# TKVVBS 0.2mm<sup>2</sup> ~ 0.5mm<sup>2</sup>

## Applications/Features

- For signal lines of control devices, machine tools, etc.
- Excellent heat resistance, oil resistance and flexibility.
- Core types are black sheath, Twisted-pair types are gray sheath.
- Reduce crosstalk noise.—The twisted pair types have different pitch for adjacent pairs.
- Better workability.—Shielded types have a drain wire of the same size as the conductor.
- Easy core identification.—All cores have diifferent color patterns. (common in our instrumentation cables) .
- Multi-standard cable.—Complies with UL listing(UL PLCC), UL recognized and cUL(CSA AWM)
- Compliant with RoHS2.

## Standard

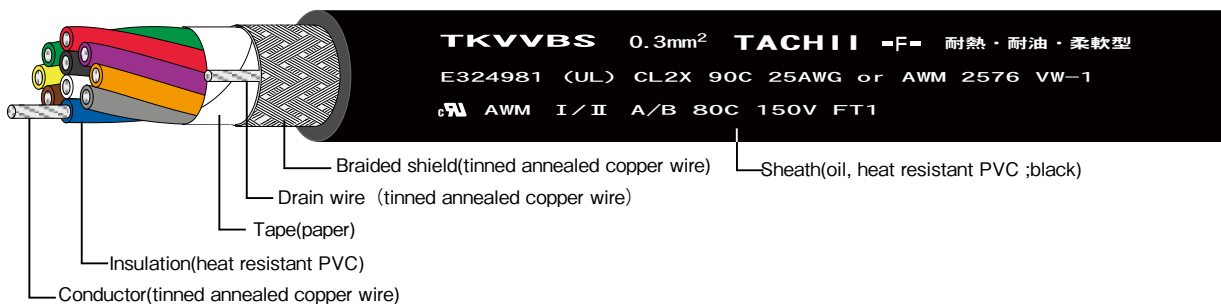
- Standard

	UL PLCC <sup>※1</sup>	UL AWM	cUL AWM
Standard	UL 13	UL758	CSA22.2 No.210
Style/Type	CL2X	Style 2576	I / II / A/B
Rated Volage	(150V)	150V	150V
Rated Temp.	90°C	80°C	80°C
Flame Retardance	VW-1	VW-1	FT1

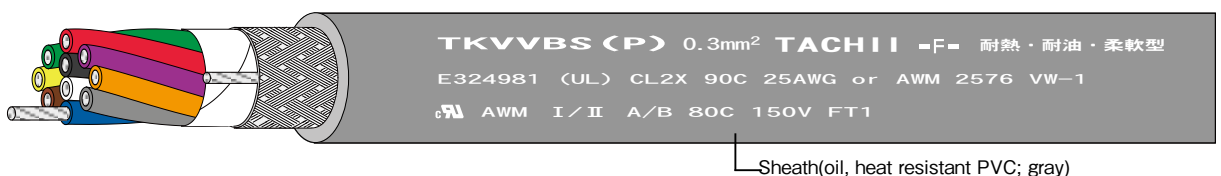
※1 1P, 2C and 3C do not comply to UL PLCC. They comply to only UL AWM and cUL.

## Construction/Properties

【Core type】 TKVVBS □□ C



【Pair type】 TKVVBS □□ P



※ 2. Core type: Black sheath, Pair type: Gray sheath

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【Core type】TKVVBS □□C

Model	Conductor			Insulation		Sheath		Weight kg/km	Conductor resistance (20°C) Ω /km	Insulation resistance (20°C) M.Ω /km	Test Voltage V·1min	Allowable Current (30°C) A	Length m
	Size	Const- ruction	OD	Thick- ness	OD	Thick- ness	OD						
	AWG	No./mm	mm	mm	mm	mm	mm						
2C - 02T	0.2 (AWG25)	7/0.18	0.54	0.25	1.04	0.90	4.6	31	119 or under	50 or more	AC1500	3.5	100 (B)
3C - 02T						0.90	4.7	34				3.1	
4C - 02T						0.90	5.0	38				2.8	
5C - 02T						0.90	5.3	44				2.5	
6C - 02T						1.05	5.8	51				2.3	
8C - 02T						1.00	6.1	58				2.1	
10C - 02T						1.00	6.9	68				1.9	
12C - 02T						1.00	7.0	75				1.7	
14C - 02T						1.00	7.3	83				1.7	
16C - 02T						1.00	7.6	90				1.6	
20C - 02T						1.00	8.2	105				1.4	
30C - 02T						1.10	9.6	145				1.2	
40C - 02T						1.20	10.7	184				1.0	
50C - 02T						1.30	12.0	224				1.0	
2C - 03T						0.3 (AWG23)	12/0.18	0.72				0.29	
3C - 03T	0.90	5.3	44	4.5									
4C - 03T	1.00	5.8	52	4.1									
5C - 03T	1.00	6.2	60	3.6									
6C - 03T	1.00	6.5	64	3.4									
8C - 03T	1.00	7.0	78	3.0									
10C - 03T	1.00	7.9	92	2.7									
12C - 03T	1.00	8.1	102	2.6									
14C - 03T	1.00	8.6	119	2.4									
16C - 03T	1.10	9.0	129	2.3									
20C - 03T	1.10	9.8	154	2.1									
30C - 03T	1.30	11.6	215	1.7									
40C - 03T	1.30	12.8	270	1.5									
50C - 03T	1.40	14.4	329	1.4									

- Refer to "Pattern ⑧" on P.45 for core configuration.
- "B" in Length part means "Bundle", "D" in Length part means "Drum".
- "50C" is BTO.

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[Pair type] TKVVBS □□P

Model	Conductor			Insulation		Sheath		Weight kg/km	Conductor resistance (20°C) Ω /km	Insulation resistance (20°C) M.Ω /km	Test Voltage V·1min	Allowable Current (30°C) A	Length m	
	Size	Const- ruction	OD	Thick- ness	OD	Thick- ness	OD							
	AWG	No./mm	mm	mm	mm	mm	mm							
1P - 02T	0.2 (AWG25)	7/0.18	0.54	0.25	1.04	0.90	4.6	31	121 or under	50 or more	AC1500	3.5	100 (B)	
2P - 02T						1.00	5.9	45				2.8		
3P - 02T						1.00	6.1	52				2.3		
4P - 02T						1.00	6.5	61				2.0		
5P - 02T						1.00	7.0	71				1.9		
6P - 02T						1.00	7.4	79				1.7		
7P - 02T						1.00	7.4	84				1.6		
8P - 02T						1.00	7.9	94				1.6		
10P - 02T						1.10	9.2	115				1.4		
12P - 02T						1.20	9.7	133				1.3		
15P - 02T						1.20	10.5	156				1.2		
18P - 02T						1.20	11.0	177				1.1		
20P - 02T						1.30	11.7	198				1.0		
25P - 02T						1.40	13.0	239				0.9		
32P - 02T						1.40	14.1	288				0.9		100(D)
1P - 03T	0.3 (AWG23)	12/0.18	0.72	0.29	1.30	0.90	5.1	37	71.1 or under	50 or more	AC1500	5.2	100 (B)	
2P - 03T						1.00	6.7	59				4.0		
3P - 03T						1.00	6.9	69				3.4		
4P - 03T						1.00	7.5	82				3.0		
5P - 03T						1.00	7.9	95				2.7		
6P - 03T						1.10	8.9	114				2.5		
7P - 03T						1.10	8.9	121				2.4		
8P - 03T						1.20	9.6	139				2.3		
10P - 03T						1.30	11.2	172				2.1		
12P - 03T						1.30	11.5	192				2.0		
15P - 03T						1.30	12.6	228				1.7		
18P - 03T						1.40	13.4	265				1.7		
20P - 03T						1.40	14.0	289				1.5		
25P - 03T						1.60	15.8	358				1.4		100(D)
1P - 05T						0.5 (AWG21)	20/0.18	0.93				0.38		1.70
2P - 05T	1.00	7.9	82	6.0										
3P - 05T	1.20	8.7	106	5.0										
4P - 05T	1.20	9.3	126	4.4										
5P - 05T	1.20	10.1	148	4.0										
6P - 05T	1.30	11.1	176	3.8										
7P - 05T	1.30	11.1	187	3.6										
8P - 05T	1.30	12.0	212	3.4										
10P - 05T	1.50	14.0	265	3.1										
12P - 05T	1.50	14.5	298	2.9										
15P - 05T	1.60	15.9	362	2.5	100(D)									

- Refer to "Pattern ㉞" on P.43 for core configuration.Refer to "2C" in "Pattern ㉞" on P.52 for "TKVVBS 1P-05T".
- "B" in Length part means "Bundle","D" in Length part means "Drum".