

DAIDEN CO., LTD.

ELECTRIC WIRES
& CABLES PRODUCTS

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SPEC. No. STD-022A

SPECIFICATION

FOR

SEMI-RIGID PVC INSULATED AND PVC JACKETED CABLE WITH SHIELD

(HRNVV-SB)

signed by Seiya Tsuji
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Communication cable dept

1. SCOPE

This specification covers for the PVC insulated and PVC jacketed cable with shield.

2. SYMBOL

The symbol of the cable shall be " HRNVV-SB ".

3. SPECIFICATION

3 - 1 Appearance

The appearance of products must be homogeneous and free from stain, flow or other irregularities that may adversely affect the intended function of the products.

3 - 2 Construction

Refer to attached Table 1 and Fig 1.

3 - 3 Characteristics

Refer to attached Table 2.

3 - 4 UL Standard

Recognized by Underwriters Laboratories Inc.

STYLE No.	2464 (subject 758 : AWM)
Rating TEMP.	80 °C
VOLT.	300 V
USE	Internal wiring or external interconnection of electronic equipment (such as desk-type calculators, dictating machines, or x-ray equipment).

3 - 5 Flammability Rating

Flame test of UL-standard(VW-1) must be satisfied.

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Table 1-1 Construction

I T E M		V A L U E						
Size	AWG	28						
Number of Pairs		2	3	4	5	6	8	10
Conductor	Material	Tinned Annealed Copper						
	Construction (No/mm)	7/0.127						
	Dia. (approx. mm)	0.38						
Insulation	Material	Semi-rigid PVC						
	Thickness (approx. mm)	0.25						
	Dia. (approx. mm)	0.88						
Twisting		Pair						
Stranding		Refer to attached Fig 1						
Drainwire	Material	Tinned Annealed Copper						
	Compostion(Lines/mm)	11/0.16						
Shield	Material	Tinned Annealed Copper(percent coverage:over85%)						
	Thickness (approx. mm)	0.25			0.30			
Jacket	Material (color)	Heat-resistant PVC						
	Thickness (approx. mm)	0.85						
	Color	Brown						
Overall diameter (approx. mm)		5.5	6	6.5	7	7	8.5	8.5
Appox. weight (kg/km)		40	40	50	55	65	80	85

Table 2-1 Characteristics (at 20 °C)

I T E M	S T A N D A R D V A L U E
Max. DC resistance of conductor (Ω /km)	230.6
Min. insulation resistance (M Ω -km)	10
Dielectric strength (V/min.)	AC 1500

Table 1-2 Construction

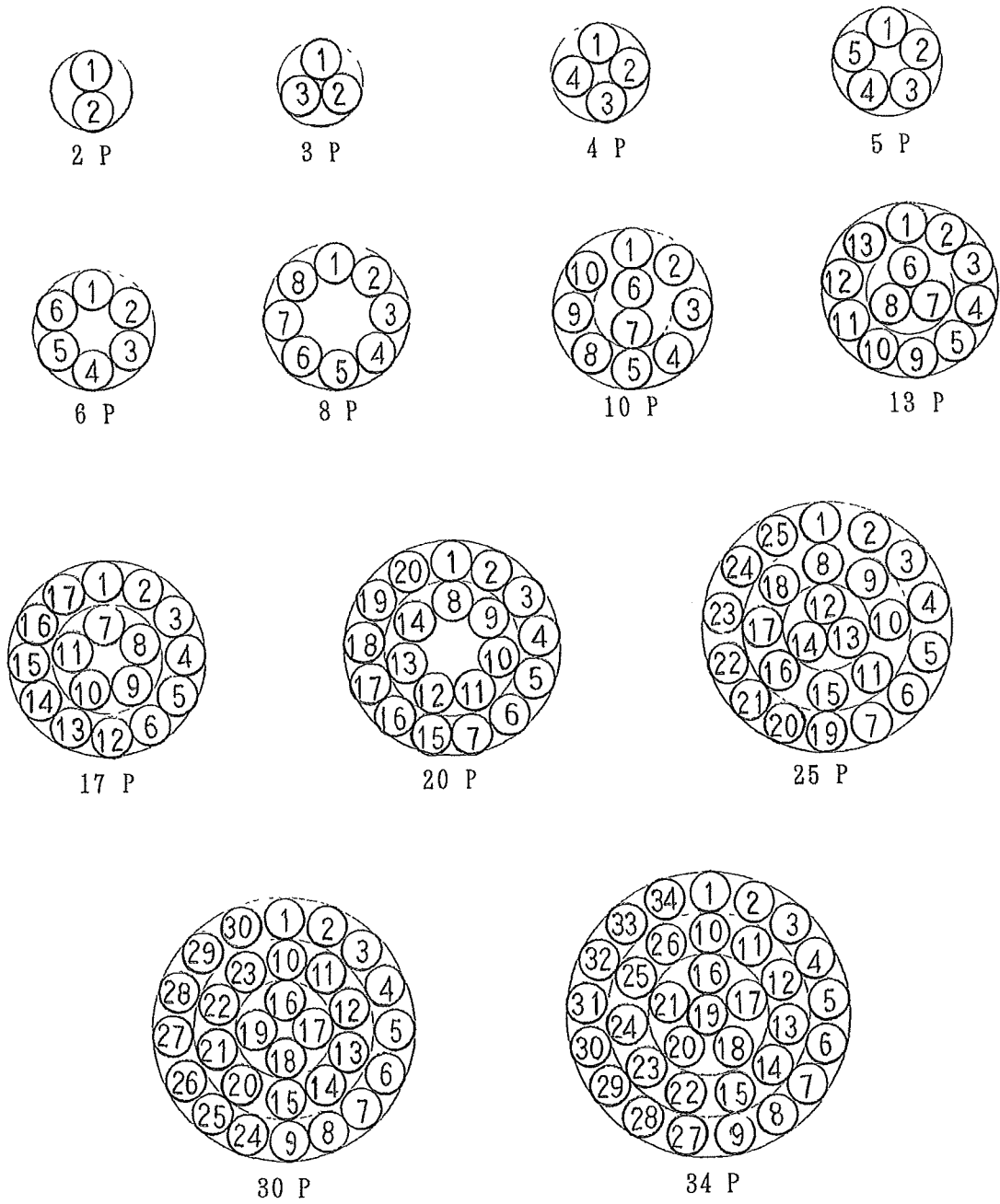
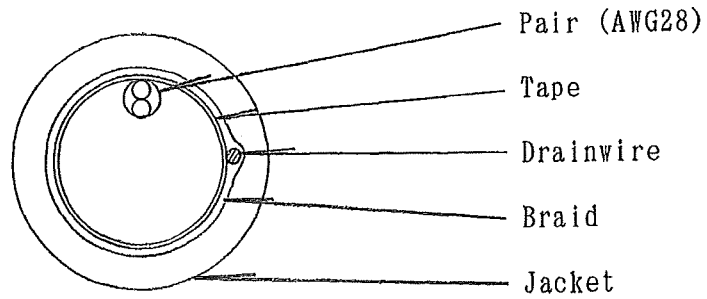
I T E M		V A L U E						
Size	AWG	28						
Number of Pairs		13	17	20	25	30	34	
Conductor	Material	Tinned Annealed Copper						
	Construction (No./mm)	7/0.127						
	Dia. (approx. mm)	0.38						
Insulation	Material	Semi-rigid PVC						
	Thickness (approx. mm)	0.25						
	Dia. (approx. mm)	0.88						
Twisting		Pair						
Stranding		Refer to attached Fig 1						
Drainwire	Material	Tinned Annealed Copper						
	Compostion (Lines/mm)	11/0.16						
Shield	Material	Tinned Annealed Copper (percent coverage: over 85%)						
	Thickness (approx. mm)	0.30			0.35			
Jacket	Material (color)	Heat-resistant PVC						
	Thickness (approx. mm)	0.85						
	Color	Brown						
Overall diameter (approx. mm)		9	10	11	11.5	12.5	13	
Approx. weight (kg/km)		100	120	140	160	180	200	

Table 2-2 Characteristics (at 20 °C)

I T E M	S T A N D A R D V A L U E
Max. DC resistance of conductor (Ω /km)	230.6
Min. insulation resistance (M Ω -km)	10
Dielectric strength (V/min.)	AC 1500

F i g . 1

Cross-Section of Cable
[Symbol : HRNVV-SB]



Pair No.	Insulating material color	※ Kind mark	Mark color		Pair No.	Insulating material color	※ Kind mark	Mark color	
			1stcore	2ndcore				1stcore	2ndcore
1	Orange	1	Red	Black	18	White	4	Red	Black
2	Gray	1	Red	Black	19	Yellow	4	Red	Black
3	White	1	Red	Black	20	Pink	4	Red	Black
4	Yellow	1	Red	Black	21	Orange	5	Red	Black
5	Pink	1	Red	Black	22	Gray	5	Red	Black
6	Orange	2	Red	Black	23	White	5	Red	Black
7	Gray	2	Red	Black	24	Yellow	5	Red	Black
8	White	2	Red	Black	25	Pink	5	Red	Black
9	Yellow	2	Red	Black	26	Orange	6	Red	Black
10	Pink	2	Red	Black	27	Gray	6	Red	Black
11	Orange	3	Red	Black	28	White	6	Red	Black
12	Gray	3	Red	Black	29	Yellow	6	Red	Black
13	White	3	Red	Black	30	Pink	6	Red	Black
14	Yellow	3	Red	Black	31	Orange	7	Red	Black
15	Pink	3	Red	Black	32	Gray	7	Red	Black
16	Orange	4	Red	Black	33	White	7	Red	Black
17	Gray	4	Red	Black	34	Yellow	7	Red	Black

※ Kind mark

No. 1 : -

No. 2 : - -

No. 3 : - - -

No. 4 : - - - -

No. 5 : - - - - -

No. 6 : - - - - - -

No. 7 : _____

NOT TO SCALE