

# Characteristics Table

For each of the characteristics of the product, it has been displayed in the results of the stage evaluation "★" (Star rating).

※evaluation result is our criteria, it may be different depending on the use environment and the like. Please use as a reference value.

Heat resistance	★★★★★
Oil resistance	★★★★★
Noise resistance	★
Flame resistance	★★★★
Torsion resistance	★★
Bend resistance	★★★★
Cable carrier	★★★★★

## Heat resistance

Heat resistance temperature of general vinyl is 60 °C, but it is possible to improve the heat resistance using a special vinyl. "1" the product that you want to clear the 60 °C of heat resistance temperature of general vinyl, we have to display the product to clear the heat resistance temperature of UL105 °C in the "5".

60°C	70°C	75°C	80°C	90°C	105°C or more
1	2	3	4	5	

## Oil resistance

It is possible to improve the oil resistance by using a special oil vinyl resin. The general vinyl no oil resistance "1", we have a product with no use on the problem even if soaked in a long period of time oil is displayed in the "5".

	PVC	HPVC		Oil resistance PVC CR	
	70°C×4hr	85°C×4hr		100°C×96hr	120°C×18hr
1	2	3	4	5	

## Noise resistance

It is possible to improve the noise resistance by adding a twist to the shielding layer (shield) and the cores. General Cable "1", the twisted pair cable "2", a cable with a shielding layer "3", twisted-pair + "4" the cable with a shielding layer, a cable with twisted pair + double shielding layer " It is displayed in 5 ".

layer string	○		○		
twist		○		○	○
shield			○	○	
double shield					○
	1	2	3	4	5

## Flame resistance

General vinyl has self-extinguishing properties, but it is possible to further improve the flame retardancy. The general vinyl "1", a product that passed the horizontal test "2", a product that passed the 60 °C tilt test "3", a product that passed the UL VW-1 flame test "4", UL vertical tray combustion products that have passed the test are displayed in the "5".

Burn	Horizon	60° inclination	VW-1	VT
1	2	3	4	5

## Flexibility

It is possible to enhance the flexibility by changing the conductor structure and an insulator or sheath material.

conductor		○	○	○	○
Insulation					○
string				○	○
sheath			○	○	○
	1	2	3	4	5

## Non-migratory

General vinyl there is a migration. It is possible to have a non-migratory that you use the special material. The general vinyl, "1", and the non-migratory products displayed in the "5".

			PS	PS,ABS
1	2	3	4	5

## Torsion resistance

Based on the twisting test (P.147 reference), the twisting number of times is less than a million times, "1", more than 1 million times, "2", the more than 3 million times, "3", more than 5 million times, "4", more than 10 million times, "5", more than 20 million times have been displayed in the "6".

Less than a million times	A million times or more	3 million times or more	5 million times or more	10 million times or more	20 million times or more
1	2	3	4	5	6

## Bend resistance

Based on the bending test (P.146 reference), the bending number of times is less than a million times, "1", a million times or more, "2", 3 million times or more, "3", 5 million times or more, "4", 10 million times or more have been displayed in the "5".

Less than a million times	A million times or more	3 million times or more	5 million times or more	10 million times or more
1	2	3	4	5

## Cable carrier

U-shaped turn-back test (P.146 reference), the bending number of times is less than a million times, "1", a million times or more, "2", 3 million times or more, "3", 5 million times or more, "4", 10 million times or more, "5", 20 million times or more, "6", 50 million times or more have been displayed in the "7".

Less than a million times	A million times or more	3 million times or more	5 million times or more	10 million times or more	20 million times or more	50 million times or more
1	2	3	4	5	6	7

## Transport property

Fixed wiring	Lead level VCTF VCT PNCT STO	A little vibration resistance	Vibration resistance type	Super anti-vibration type
1	2	3	4	5

## Precautions for products

- Please select a product that is suitable for the applicable standards and applications when you select the wire.
- Performance and characteristics materials described in this catalog, does not guarantee the performance of the actual use environment.
- Allowable current value listed in this catalog is the value of a single installation at ambient temperature 30 °C. It will change depending on the ambient temperature and the installation number at the time of use. Please multiplied by the decrease coefficient described. (※ described allowable current value is calculated value.)
- The contents of this catalog are subject to change without notice.
- If you have found a problem with the product of any chance Taiyo Cable Corporation(Our company), please contact as soon as selling the company or sales representative who can. Actual item, you are requested to store because it is necessary to verify and inspection by our quality assurance personnel. If you have been contacted to no sales information department, because it is not possible to be able to correspond, please understand.

 Do not touch the installation, such as touching a conductor people and object while the power.  
Do not use that exceeds the permitted current.

 Do not hold the object in the electric wire.  
(Do not use in place of string or rope)