

Instructions for Cable Wiring into Cable Carrier

Cable Selection

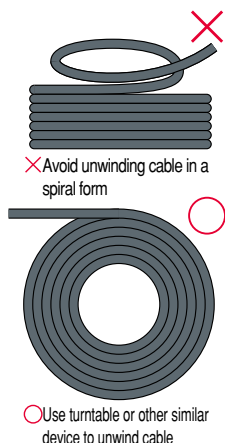
- VCT 531BX • VCT 531BXS • VCT 531Z • VCT 531ZSB • KVC-43BX • KVC-43BXS • CE-531NZ • CE-531NZSB • KRC-453Z • VCTF 43Z • VCTF 43ZSB • KDF-L • KDF-SBL • CE-531Z / MTW • KST-UL21795 • KST-SB-UL21795
- KDF • KDF-SB (recommended for multiple cable connection to cable carrier or cable connection to high speed cable carrier)

Cable Carrier Selection

- 1 Cable carrier's permissible bending radius**
The permissible bending radius of cable carrier should be based on 7.5times the outside diameter of cable wired into the cable carrier or more.
- 2 Cable carrier's width**
The width of cable carrier should be such that when cables are horizontally arranged in the cable carrier, sufficient space is provided between the cables.
- 3 Cable carrier's inner partition**
Cable carrier should be provided with as many inner partitions as possible to allow cables and/or hoses wired into the cable carrier to be separated from one another (ideally with a partition put between any two of the cables and a partition between the cable and hose groups).
- 4 Cable carrier's cable space factor**
Cable carrier should be selected so that the cable carrier's cable space factor is 30% or less.

Precautions to be taken in cable connection to cable carrier

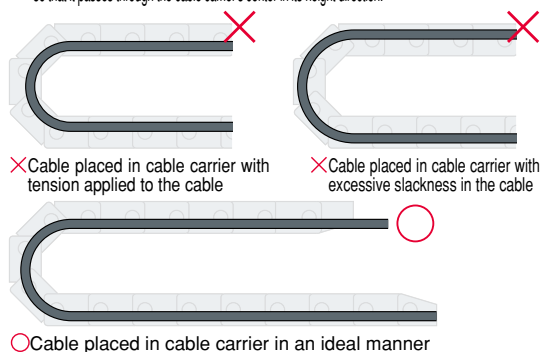
- 1 Precaution against cable twist**
 - During cable cutting
When unwinding cable from a spool, avoid pulling it in a spiral form, which may cause it to be twisted.
 - During cable connection
When unwinding cable from a spool, extend it in a straight line to straighten it, making sure that it is free from twists before wiring it properly (using the printed marking on it as a guide for its proper connection).



- 2 Precaution against cable tension**
When placing cable in cable carrier, take precautions against tension to the cable, which may it to be stretched in the cable carrier, resulting in the cable's sheath being shaved by the cable carrier's inner wall.

3 Precaution against excessive cable slackness

When placing cable in cable carrier, take precautions against excessive slackness of the cable in the cable carrier, which may cause the cable to have its sheath shaved by the cable carrier's inner wall or become entangled with other cable placed together in the cable carrier. To prevent such trouble, place the cable in the cable carrier by adjusting the length of the cable in the bent portion of the cable carrier so that it passes through the cable carrier's center in its height direction.



4 Precaution against cable fixation

When placing cable in cable carrier, take precautions against fixation of the cable in the cable carrier's movable portion, which may cause the cable's action of dispersing/absorbing its bending stress to be lost. Place cable in cable carrier, fixing the cable at both ends of the cable carrier, at which it is immobile.

5 Precaution against cable contact with air hose or other hard hose

When placing cable in cable carrier together with air hose or other hard hose, take precautions against contact of the cable with the hose, which may cause the cable to be crushed (or pressed) by the hose, resulting in shortened service life of the cable. To prevent such trouble, place cable in cable carrier together with air hose or other hard hose with a partition put between the cable and hose to separate them from each other.

6 Precaution against interference between cables

When placing a plurality of cables in cable carrier, take precautions against interference between the cables, which may cause them to fail to display their respective individual characteristics. To prevent such trouble, place a plurality of cables in cable carrier with a partition put between any two of the cables to prevent interference between them.

7 Precaution against contact between cables significantly different in outside diameter

When placing thin and thick cables (significantly different in outside diameter) together in cable carrier, take precautions against contact between the cables, which may cause the thin cable to be pressed by the thick cable, resulting in breakage of the former. To prevent such trouble, place thin and thick cables together in cable carrier with a partition put between the thin and thick cables.

8 Precaution against cable stacking

When placing a plurality of cables in cable carrier, take precautions against stacking of the cables, which may result in frequent interference between the cables, having adverse effects on their performance.

Examples of Cable Wiring into Cable Carrier (Recommended)

