



CLEAN FLEX® F type



This products is awarded the certification that can be used in ISO 14644 class 1 environment in the cable system without cable chain.

Products Data

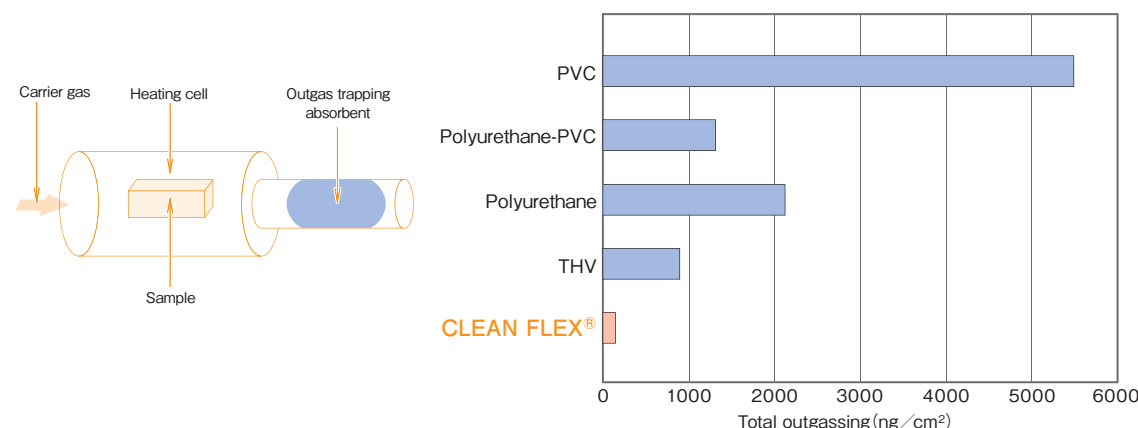
Incorporating specially-processed expanded PTFE outermost sheathing, these products offer dramatically improved outgassing traits, flexibility, and friction resistance.

Junkosha can provide flat or round cables to suit specific applications. These cables are ideally suited for use in semiconductor manufacturing equipment requiring extremely clean environments. Contact the Junkosha customer service center or a sales representative after referring to the Robot cable design communication sheet. (p.12) In response to increasingly rigorous cleanliness requirements, Junkosha offers self-supporting cable systems that eliminate the need for cable guides.

Technical Data

Outgassing characteristic

Outgas is quite few since CLEAN FLEX® is using PTFE sheath.

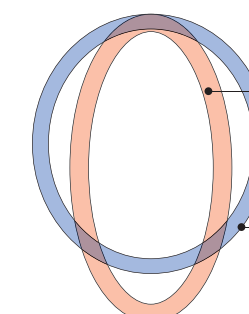
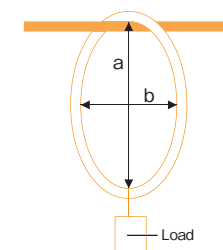


Heat a sample in an inert gas flow. Then, trap, collect, and concentrate the gas generated from the sample into an absorbent. Measure the gas using GC-MS (Gas-chromatography mass spectrometer system).

Feature data

Cable flexibility

CLEAN FLEX® achieves greater flexibility.



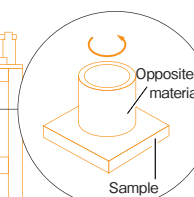
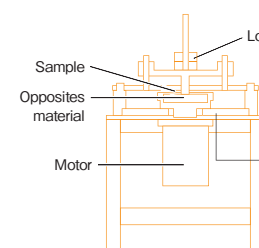
CLEAN FLEX®
 Oblateness: 3.2

JUNFLON® FEP cable
 for fixed wiring
 Oblateness: 1.3

Approx. 300mm diameter ring was made by banding both ends of 1000mm length cable.
 Apply a load of 910g at lower end of the circle. The pole diameter and equator diameter were measured after 5 seconds. The oblateness is a/b.

Abrasion resistance

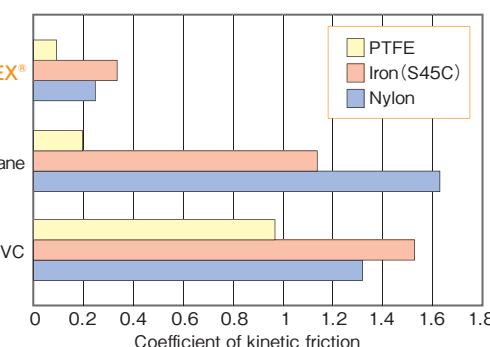
CLEAN FLEX® offers a lower friction coefficient than PVC or polyurethane.



CLEAN FLEX®

Polyurethane

PVC

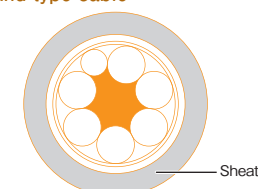


Measure the kinetic friction of coefficient of sample by pressing and rotating sample (plate form) on to pipe-shaped opposites material.

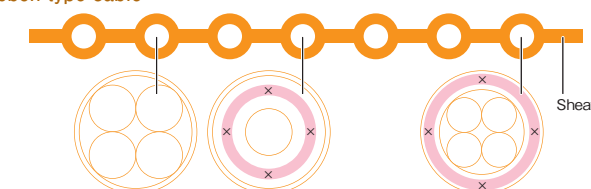
Cable specifications

CLEAN FLEX® can engineer to meet various requirement such as the round type cable and ribbon type cable.

Round type cable



Ribbon type cable



Order information

Complete the Robot Cable Design Communication Sheet on Page 12.