

# Substances of Concern in FFC products

Substances of concern in FFC products are shown in the below table.

JGPSSI level A substances banned by various country's laws are not used in the below FFC products.

Substances of Concern	FFC Products												
	Criterion/ Directive	SUMI-CARD					JUMPER LEAD WIRE						
		SMCD	SML2CD	SML2CD-HF	SML2XCD	SML2SC	SMV2J	SMV2RJ	SML2VJ	SMV2RJ-HF	SMV2J-U		
Lead/Lead compounds	JGPSSI Level A	RoHS	ELV	-	-	-	-	-	-	-	-	-	-
Cadmium/Cadmium compounds				-	-	-	-	-	-	-	-	-	-
Hexavalent chromium compounds				-	-	-	-	-	-	-	-	-	-
Mercury/Mercury Compounds				-	-	-	-	-	-	-	-	-	-
PBBs				-	-	-	-	-	-	-	-	-	-
PBDEs		-	-	-	-	-	-	-	-	-	-		
Asbestos		-	-	-	-	-	-	-	-	-	-		
Specific azo compounds		-	-	-	-	-	-	-	-	-	-		
Substances that damage the ozone layer		-	-	-	-	-	-	-	-	-	-		
PCBs		-	-	-	-	-	-	-	-	-	-		
Naphthalene polychloride (with three or more chlorines)		-	-	-	-	-	-	-	-	-	-		
Radioactive substances		-	-	-	-	-	-	-	-	-	-		
Paraffin chloride (short chain)		-	-	-	-	-	-	-	-	-	-		
TBTs/TPTs		-	-	-	-	-	-	-	-	-	-		
TBTO		-	-	-	-	-	-	-	-	-	-		
Antimony/Antimony compounds	Level B	-	●	-	●	●	●	●	-	●			
Arsenic/Arsenic compounds		-	-	-	-	-	-	-	-	-			
Beryllium/Beryllium compounds		-	-	-	-	-	-	-	-	-			
Bismuth/Bismuth compounds		△	△	△	△	△	-	-	-	-			
Brominated flame retardants (other than PBBs or PBDEs)		-	●	-	●	●	-	-	-	-			
Nickel/Nickel compounds		-	△	-	-	-	-	-	-	-			
Certain phthalates		●	-	-	-	-	-	-	-	-			
Selenium/Selenium compounds		-	-	-	-	-	-	-	-	-			
Polyvinyl chloride (PVC)		●	-	-	-	-	●	●	●	-	●		

● : use    △ : use in some of conductors    - : not use

JGPSSI Level A : Chemical substances that are chosen by Japan Green Procurement Survey Standardization Initiative. Containing them is banned or restricted by various countries' law.

JGPSSI Level B : Chemical substances that are investigative items by Japan Green Procurement Survey Standardization Initiative.

RoHS Directive : Directive that restricts to use the hazardous substances in electronic and electric appliances in EU.

ELV Directive : Directive that aims to reduce waists from end of live Vehicles and to dispose them appropriately in EU.

※This specification is subject to change without a prior announcement.