

# Halogen Free Appliance Cords and Cables

Concern for the environment has increased in recent years and there has been growing demand for greater attention to environmental protection. As a leader in the power cord industry, Chau's Electrical Co., Ltd. is taking the lead by using Green Materials in our products. Initial R&D projects removed heavy metals, and now we have developed a line of Halogen-Free Appliance Cords, Cables and Power Cords to meet new industry demands.

## EM cables for Japanese market

The Japanese market is moving toward EM (Ecology Material) cable as a replacement for traditional PVC cable. The new EM cable is more environmentally friendly and specifically it is halogen-free.

The EM cables used for power cords are as follows:

PVC cable type	EM cable type	EM cable standard	PVC cable standard
VSF/HVSF	EM-ESF EM-CSF	JCS 4501-2002 Flame and Heat retardant polyethylene cord. (excluding heat retardant cross linked polyethylene)	JIS C3306-2000 Polyvinyl Chloride Insulated Flexible Cords
VFF/HVFF	EM-EFF EM-CFF	JCS 4501-2002 Flame and Heat retardant polyethylene cord. (excluding heat retardant cross linked polyethylene)	JIS C3306-2000 Polyvinyl Chloride Insulated Flexible Cords
VCTF/HVCTF	EM-ECTF EM-CCTF	JCS 4501-2002 Flame and Heat retardant polyethylene cord. (excluding heat retardant cross linked polyethylene)	JIS C3306-2000 Polyvinyl Chloride Insulated Flexible Cords
VCTFK/HVCTFK	EM-ECTFK EM-CCTFK	JCS 4501-2002 Flame and Heat retardant polyethylene cord. (excluding heat retardant cross linked polyethylene)	JIS C3306-2000 Polyvinyl Chloride Insulated Flexible Cords

**For European market “Low Smoke Halogen Free Resistance flame Material cable”**

PVC cable type	Low Smoke Halogen Free Cable type	Low smoke Halogen Free Cable standard	PVC cable standard
H03VV-F	H03Z1Z1-F	EN50525-3-11 (HD 21.14)	HD 21.5
H03VVH2-F	H03Z1Z1H2-F	EN50525-3-11 (HD 21.14)	HD 21.5
H05VV-F	H05Z1Z1-F	EN50525-3-11 (HD 21.14)	HD 21.5
H05VVH2-F	H05Z1Z1H2-F	EN50525-3-11 (HD 21.14)	HD 21.5

**For European market “Halogen-free Polyurethane sheathed wire” intended for use in condition of dry, damp and wet places , suitable for use in dock and freezer.**

PVC cable type	Low Smoke Halogen Free Cable type	Low smoke Halogen Free Cable standard	PVC cable standard
H05VV-F	H05BQ-F	EN50525-3-11 (HD 21.14)	EN50525-3-11 (HD 21.14)
	H07BQ-F	EN50525-3-11 (HD 21.14)	HD 21.5

**For American market “Halogen-free TPE wire”**

PVC cable type	Low Smoke Halogen Free Cable type	Low smoke Halogen Free Cable standard	PVC cable standard
SPT-1	SPE-1	UL62	UL62
SPT-2	SPE-2	UL62	UL62