### Qualification Nos. of Respective Standards

●<PS>E Products Certified by Qualification Tests under the Electrical Appliance Safety Law

TIONE Troducts ocitifica b	y qualification lests	under the Elec	tricai	Appliance Safety Law	
Name	Ту	pe		Certificate Number	Certificate old Number
	125V Max., 3A Max.			JET0071-43001-1003	41-8348
	125V Max.,3A Min. 7AM	lax.		JET0071-43001-1001	41-7202
Davis Outlet Divis	125V Max.,3A Min. 7AM	Max.		JET0071-43001-1002	41-17988
Power Outlet Plug	125V Max., 3A Min. 7AMax.	2Poles, including th	ne ground	JET0071-43001-1004	41-15335
	125V Max.,7A Min. 15AMax.			JET0071-43001-1005	41-6196
	125V Max., 7A Min. 15A	AMax.   ●		JET0071-43001-1006	41-16666
Power Outlet Plug for Appliance	125V Max.,3A Min. 7AMax.	2Poles, including th	ne ground	JET0071-43006-1001	41-18861
Power Inlet Socket	125V Max., 3A Min. 7A	AMax.		JET0071-43004-1001	41-7166
	125V Max., 10A Min. 15A	AMax.		JET0071-43004-1002	41-7167
Power Inlet Sockets	125V Max., 10A Min. 15A	AMax.		JET0071-43003-1001	41-9684
	VCL			IET0071 1200E 1001	12-1385
Single-Core PVC Cord	VSF			JET0071-12005-1001	
Cinal a Const Deliverbland and Const	S-HVSF			JET0071-12005-1002	12-3168
Single-Core Polyethylene Cord				JET0071-12017-1001	- 10 1000
Due st	VFF			JET0071-12011-1002	12-1386
PVC flat Cord	VFF (Multi-flat)			JET0071-12011-1001	12-4123
	S-HVFF			JET0071-12011-1003	12-5454
Polyethylene flat Cord	EM-CFF			JET0071-12016-1001	_
	VCTF, VCTFK			JET0071-12009-1001	12-1384
Sheathed Flexible Cord	HVCTF, HVCTFK (Core:60			JET0071-12009-1002	12-5335
Silvatilica i rexibite cora	HVCTF, HVCTFK (Core &	Sheath:Rated T	emp.)	JET0071-12009-1003	12-3167
	EM-CCTF, EM-CCTFK			JET0071-12019-1002	_
PVC Sheathed Flexible Cable	VCT			JET0071-12012-1002	12-1906
TVO GIICALIICA TTEXTBIC GABIC	HVCT			JET0071-12012-1003	12-6258
	KIV (8mm²Max.)			JET0071-12001-1006	12-5379
	KIV (8mm²Min.32mm²Max.)			JET0071-12001-1003	12-8067
	ULCE-KIV	60227 IEC	02	JET0071-12001-2001	_
Plastic-Insulated Cable	OLGE-KIV	HKIV		JET0071-12001-1007	10 5200
	HKIV (8mm²Max.)		JE100/1-12001-100/	12-5380	
	HKIV (8mm²Min. 32mm²Max.)		JET0071-12001-1004	12-8066	
	EM-KIC (8mm²Max.)		JET0071-12001-1005	12-9472	
	EM-KIC (8mm²Min. 32mm²Max.)		JET0071-12001-1008	_	
	HIV (8mm²Max.)		JET0071-12001-1001	12-8793	
Cable	CV		JET0071-12004-1002	12-8845	
	H-CV			JET0071-12004-1001	_
	H EM-CE		JET0071-12004-1003	12-9483	
Tinsel Cord	TYVFF		JET0071-12010-1001	12-2884	
	TYVCTF		JET0071-12010-1002	12-9654	

### •JIS (Japanese Industrial Standards) Certified Products

Products	Type	Factory	Certificate Number
PVC Cord	VSF. HVSF. VFF. HVFF. VCTF. HVCTF. VCTFK. HVCTFK	Osaka Factory	JE0507015
	VOF, NVOF, VFF, NVFF, VOIF, NVOIF, VOIFK, NVOIFK	Chiba Factory	JE0507014
Coaxial Cables	S-4C-FB, S-5C-FB, S-7C-FB	Osaka Factory	JE0507013

## ●TUV Certified Products

Products	Туре	Factory	Certificate Number
450V/750V 90°C	HO7V2-K (1. 5mm², 2. 5mm², 4. 0mm², 6. 0mm²)	Osaka Factory	R50091891
AC U₀/U 0.6/1kV	PV1-F (2. 5mm², 4. 0mm², 6. 0mm²)	Osaka Factory	R50197322

### ●UL Standards Certified Products

OE Oralidar do Oct Ellito Il Oddoto					
Standard	Type	Name	File Number		
UL758	Style No.	Appliance Wiring Material	E58095		
CSA-C22. 2 No. 210	I A/B	Appliance Wiring Material for Canada	E58095		
UL1063	60°C WET 90°C DRY 600V	Machine-Tool Wires and Cables	E310419		
SUBJECT 4703	90°C WET OR DRY 600V, 2000V	PHOTOVOLTAIC WIRE (10AWG, 12AWG, 14AWG)	E315108		
UL854	90°C WET OR DRY 600V	Service-Entrance Cables	E234932		

# Outline of National and Overseas Safety Standards and RoHS Directives

■ Electrical Appliance and Material Safety Law

This law is designed to prevent fires, accidents and other hazards caused by electrical appliances through the promotion of the voluntary activities of private companies to secure appliance safety. Any business proprietor who wants to manufacture or import electrical appliances is obligated to report it to the Economy, Trade and Industry Minister. It is required that the proprietor has the appliances to be manufactured or imported comply with the technical standards set forth by the ministry. The said law stipulates that any appliance with particular potentials to cause danger and/or hazard be defined by government ordinance as 'specific electrical appliance.' The proprietor who plans to make or import such an appliance should put it to qualification tests by an inspection institution authorized or approved by the minister. The proprietor is then supposed to receive a qualification certificate from the ministry and keep it in custody. Further, the proprietor shall make and keep inspection records and label qualification evidence on the relevant appliance.

KHD's cables and power cords with plug carry on them a <PS>E mark and the name of a certifying organization (JET:Japan Electrical Safety & Environment Technology Laboratories) to show that they are qualified as specific electrical appliances.

■ Voluntary registration system for flame-retardant cables for electrical appliances (F-mark)

The F-mark on a cable represents that the cable has been qualified and registered as flame retardant by a thi rd-party, the Japan Quality Assurance Organization or JQA, as a result of JQA's sample testing and factory screening in accordance with the Electrical Appliance Technical Standards Appendix Table 8 Combustion Testing (Vertical).

This test system, applicable only in Japan, was instituted corresponding to the American UL's VW-1 test system

#### ■ UL and cUL

UL or Underwriters Laboratories Inc. is an American corporation which sets forth the UL Standards for qualify ing and continuously authorizing electrical products to protect lives and properties from a fire or an electric shock

The cUL mark can be labeled on a product that has passed Canadian CSA standards tests conducted by UL. UL is supposed to test and qualify, as well as undertake follow-up services for, electrical appliances imported in Canada on the commission from the Canadian Standards Association.

Products labeled cUL are regarded same as those CSA authorized. All products sold in Canada must be CSA qual ified. The CSA Standards are globally known together with the UL Standards.



USA



**CANADA** 



USA & CANADA



UL Recognized Component Marks

A qualified product and its package are supposed to indicate the relevant mark an d the relevant mark sticker applied on the package.

LISTED

#### ■CF Marking

The CE (Conformité Européen) marking of a product by its manufacturer or importer indicates that the product complies with an relevant EC directive of the European Union. Such marking assures the product to be free ly marketed in EU member countries. EC directives, which are put into effect by an EU Council of Ministers directive, include a machinery directive, an EMC directive and a low-voltage directive. Although no independent directive is issued for wires, the low-voltage directive is applicable for them since they are considered to be an important product relating to safety. Also, wires have the CE marking to avoid trouble in EU member countries.

- ■Comite Europeen de Normalisation Electrotechnique

  There are two kinds of standards set forth by the CENELEC or Comité Européen de Normalisation É l'ectrotech nique: the Norme Européenne (European Standards) and the HD (Harmonization Document) Standards; the latter tentatively issued. Wires are defined in HD 21.
- Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment RoHS or the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment w as put into effect by the EU on 1st July 2006. The RoHS prohibits the use of the following 6 substances in the electrical and electronic equipment handled in EU member countries: lead (Pb), mercury (Hg), cadmium (Cd), sexivalent chromium (Cr), polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE).