Harmonized <HAR> Approved Conforms to CE

Lapp's Harmonized and CE conforming cables are utilized on Electronic and Electrical equipment that is intended for use in Europe.

The development and implementation of common standards for the European marketplace facilitates export trade to European countries. An international safety standards agency called CEN-ELEC (European Committee for Electrotechnical Standardization) was formed to develop electrical standards that would be universally acceptable to all CENELEC member nations which are noted in the table below.

The electrical standards are classified as Harmonization Documents. OLFLEX®'s "HAR" cordage and hook-up wire conforms to Harmonization Documents HD-21 and HD-22:

- HD-21 Specification for polyvinyl chloride insulated wire and cables.
- HD-22 Specification for rubber insulated flexible cords and cables.

In order to identify a harmonized wire or cable, one of the following identification methods are required: (1) Printed

letters (HAR) on either the overall jacket or insulation or (2) Printed tape or identification threads.

Recommended applications as defined in the Harmonization Documents are as follows:

- PVC Cord (H05VV-F) for use in offices, domestic premises, household appliances. Permitted for cooking and heating applications, provided cable does not contact hot parts and is not subjected to radiation.
 (NOT SUITABLE FOR OUTDOOR USE)
- Rubber Cord (H05RR-F/H07RN-F) for use when cable is subjected to mechanical stress in dry and damp areas. May be used as power supply cable for portable motors, appliances, domestic electric and electrical tools, agricultural and utility water equipment. May be installed on plaster or directly on structural parts of heavy machinery.

The CE symbol identifies a product that conforms to a European Directive developed by a coalition of European countries that form the European Union (EU). This compliance is necessary for exporting certain cable types to countries within the European community.

HARMONIZED WIRE CODING SYSTEM	LICENSING BODIES OF CENELEC*	
1 2 3 4 5 6 7 8 9	AUSTRIA	Osterreichischer Verband for Elektrotechnik (OVE)
BASIC TYPE H Harmonized Type A National Type	BELGIUM	Comite' Electrotechnique Belge (CEBEC)
	DENMARK	Denmarks Elektriske Materiel Kontrol (DEMKO)
2. WORKING VOLTAGE 03 300/300 Volt 05 300/500 Volt 07 450/750 Volt	FINLAND	Electrical Inspectorate (SETI)
3. INSULATING	FRANCE	Union Technique de l' Electricite' (UTE)
V PVC R Rubber S Silicone Rubber	GERMANY	Verband Deutscher Elektrotechniker (VDE) e.V, Prüfstelle
4. SHEATH-CLADDING MATERIAL V PVC R Rubber	GREECE	Hellenic Organization for Standardization (ELOT)
N Chloroprene Rubber J Glass-filament Braiding	IRELAND	National Standards Authority of Ireland (NSAI)
T Textile Braiding	ITALY	Istituto Italiano del Marchio di Quanta (IMQ)
5. SPECIAL FEATURESH Ribbon Cable, SeparableH2 Ribbon Cable, Non-Separable	LUXEMBOURG	ITM
6. CONDUCTOR TYPES U Single Wire	NETHERLANDS	N.V. tot Keuring van Elektrotechnische Materialen (KEMA)
R Multi-Wire K Fine Wire (Permanently Installed) F Fine Wire (Flexible)	PORTUGAL	Institute Petugues Da Qualidede (IPQ)
H Super Fine Wire Y Tinsel Strand	SPAIN	Asociacion Electrotcenica Y Electronica Espanola
7. NUMBER OF CONDUCTORS 8. PROTECTIVE CONDUCTOR	SWEDEN	Svenska Elektriska Materiel Kontrollanstalten (SEMKO)
X Without Protective Conductor G With Protective Conductor 9. CONDUCTOR CROSS-SECTIONAL	UNITED KINGDOM	B.A.S.E.C. — British Approvals Service for Electric Cables Ltd.
Area specified in mm²		

