

# TECHNICAL *Informative*

## ROHS EUROPEAN DIRECTIVE A SEARCH FOR THE EQUILIBRIUM BETWEEN MAN AND NATURE



A growing world population is concerned with the environment and the sustainability of the planet. Problems caused by the increased frequency and intensity of storms, tornadoes, flooding and temperature changes, are the results of decades of destruction and abuse of our natural resources.

Many NGOs, governments and universities aimed at environment preservation are studying ways to minimize the effects and take steps to protect against the damaging and excessive use of our natural resources.

The world will then enter in the green era. There is now a movement for the planet and the environment organized not only civilians, but mainly through government action and private initiative.

As an example of government action in January 2003, the European Parliament and Council issued Directive 2002/96/EC on waste electrical and electronic equipment and waste management, which effectively put into practice on 1 July 2006, in Europe.

The RoHS standard, as it is known, has as main objectives to reduce the amount of industrial waste and hazardous components, ie, restricting the use of certain hazardous substances, encourage reuse of equipment and recovery of waste and determine proper management, trying to improve the effectiveness of environmental protection.

This directive divided into 10 categories the types of electric or electronic devices contained in the measure. All manufacturers of electronic products that are in these categories are to adopt plans for their products to restrict the use of Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated or polybromobiphenyl ethers.

In addition to the adaptation in the use of raw materials, manufacturers had to modify the design of equipment to facilitate disassembly, repair and, in particular reuse and recycling, allowing for proper environmental management with the collection and treatment of potential waste and informing users about the proper disposal procedure for reduced environmental impact of their product.

# CATEGORIES OF ELECTRICAL OR ELECTRONIC DEVICES CONTAINED IN ROHS DIRECTIVE:

1. Major Appliances: Refrigerators , washers, dryers, dishwashers, fans, air conditioners , heaters , stoves, etc.
- 2 . Small appliances : vacuum cleaners , toasters, irons , electric knives , electric toothbrushes , watches, razors, etc.
- 3 . IT and telecommunications equipment : computers, printers, telephones, cell phones , calculators and other products that transmit information by telecommunication.
- 4 . Consumer equipment : radio , television, video cameras, amplifiers, musical instruments, etc. .
- 5 . Lighting equipment : Enterprise luminaires , lamps of all types .
6. Electrical and electronic tools : saws , lathes , drills, welding machines , sewing machine , etc.
7. Games and sports or recreational equipment: videogames, sonar for underwater fishing, portable consoles , electronic toys in general.
8. Medical equipment: all electronic laboratory equipment used to prevent, detect or treat diseases , other products that will be introduced or infected.
9. Instrument control and surveillance system used in automation (Smoke detectors, temperature controls, scales, etc. ), even parts of equipment such as control panels equipment.
10. Direct supply machines to the public : ATM machines, drinks, ice cream, beer, etc.

## FURUKAWA, CABLES AND ACCESORIES WITH RoHS

Although there is no RoHS similar protective legislation in Latin America, leading the way Furukawa adopted the RoHS model as a standard for its entire line of structured cabling products to better protect the environment.

The Furukawa RoHS Directive was first applied to its Category 5e and 6 cable in 2007, and today all Furukawa network product are in compliance with the Directive.

All Furukawa RoHS compliant product is identified by a seal on the packaging.



Use RoHS Compliant solution in your data network and so you will be contributing to the balance between man and nature.



### PRODUCTION CENTER

**Curitiba - PR**  
R. Hasdrubal Bellegard, 820  
Cidade Industrial - CEP 81460-120  
Phone.: 55 41 3341-4200 - Fax: 55 41 3341-4141

### OFFICES

**Brazil - São Paulo**  
Av. das Nações Unidas, 11.633 - 14º andar  
Ed. Brasilinterpart - CEP 04578-901 - SP  
Phone.: 55 11 5501-5711 - Fax: 55 11 5501-5757

**Argentina - Buenos Aires**  
Moreno, 850 - Piso 15B - CF  
ZIP Code: C1091 AAR  
Phone/Fax: 54 11 4331-2572