

# 1 Range of validity

This supply instruction is intended for fusion of deoxidate copper with phosphorus and copper –chromium alloy for the manufacture of the terminal heads.  
Shape and dimension of the cable heads are defined by ordering drawings and part-list.

# 2 Scope

Ensure that the manufacture of the components, their quality and the control documents meet the purchaser's directives.

# 3 Material

The materials described in this instruction are two based on the needs specified on the ordering document.

## 3.1 Quality

- Cu-DLP / CW023A (UNI EN1976) / DLP C12000 (ASTM) / SW-Cu 2.0076 (DIN)
- CuCr1 / CC140C / G-CuCr F35 (DIN 17655)

## 3.2 Requirements

### 3.2.1 Chemical composition (% in peso)

Cu-DLP		CuCr1	
Cu (+Ag)	99.90	Cr	0.5 – 1.2
P	0.005 – 0.012	Cu	resto

### 3.2.2 Mechanical proprieties

material	Tensile strength	0,2% proof strength	Elongation (*)
	R N/mm^2	Rp0,2 N/mm^2	A %
<b>Cu-DLP</b>	220	50	45
<b>CuCr1</b>	240	100	30

### 3.2.3 Fisical proprieties

material	Electrical resistivity a 20°C	Conductivity
	ohm* mm^2/m	% IACS
<b>Cu-DLP</b>	0.020-0.0176	0.003 34 per °C 85% IACS
<b>CuCr1</b>	0.049	0.001 4 per °C 35% IACS

#### **4 Delivery condition**

The supply must be in compliance to order form and must be checked and certified according to the requirements of the inspection and test plan recalled into part list.

#### **5 Inspection documents**

They should be attached to supply all control documents required by the inspection and test plan (if indicated in purchase documents).

#### **6 Certification**

Certification complying UNI EN 10204:3.1 is requested.