

Logistics Group
Inventory Management

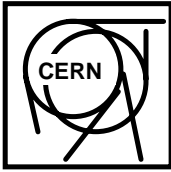
TECHNICAL NOTICE

N° 582- 06-10-2004

CERN reference N°	SCEM 04.71.06.400.0
Identification	TWISTED PAIR ROUND CÂBLE

REQUIREMENTS	
Applicable documents	IEC60332-3-2 ; IEC60754-2 ; IEC61034 ; CERN IS23
Mechanical properties	<p>Core : Stranded tinned copper,</p> <p>Section : AWG28/7 or AWG26/7</p> <p>Insulation : High density polyethylene, LSZH. Individual conductor AND insulation must be suitable for IDC type connector of 1.27mm pitch. Diameter 0.7mm is common to some cables.</p> <p>Pairs : Each group of 4 pairs white/blue; white/orange; white/green / white brown</p> <p>Lay-up : Pairs twisted in 5 groups of 4 pairs, diameter over assembly 3,10mm</p> <p>Screen : Al-PET-foil on the total and glass fibre as flame barrier + tinned copper braid, coverage > 75%</p> <p>Outer sheath : Thermoplastic LSZH flame retardant compound - Blue RAL 5015</p> <p>Max. outer diameter : 10mm</p> <p>"Manufacturer logo - CERN 04.71.06.400.0 - Zero halogen - IEC60332-1 - Manufacturing date - Calibration in meter"</p>
Electrical properties	<p>Insulation resistance : >1000MOhm.km</p> <p>Capacitance : <49pF/m</p> <p>Characteristic impedance : 110 Ohm +- 10 Ohm (f ≥1MHz - 100MHz)</p> <p>Propagation delay : <460ns/100m</p> <p>Skew time between pairs : <1ns/25m</p> <p>Test voltage : 1kV, DC, 1min, core/core and core/screen</p>
Operating voltage	150Vrms
Operating temperature	-65 to 70°C

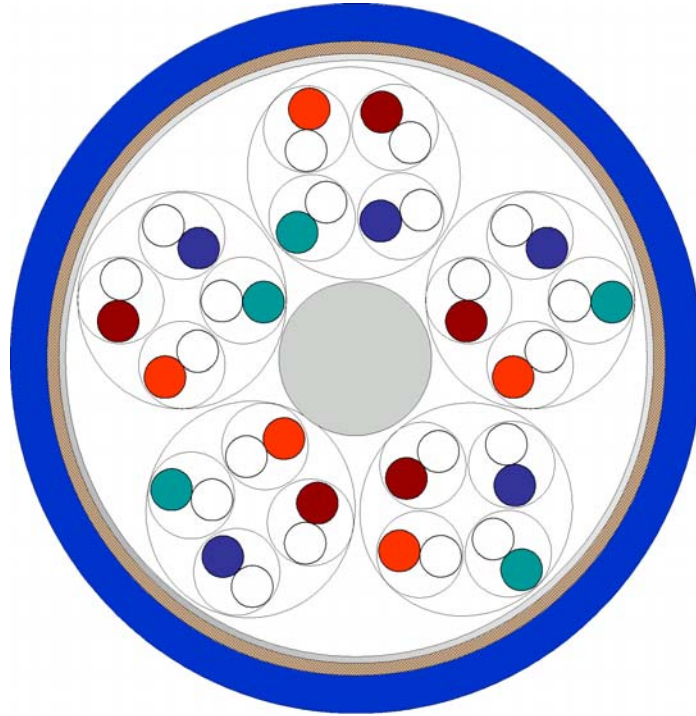
ACCORDING TO CERN SAFETY INSTRUCTION IS23



Logistics Group
Inventory Management

TECHNICAL NOTICE

N° 582-06-10-2004



04.71.06.400.0 – not to scale !