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②	shaft of the clamping barrel	aluminium-magnesium alloy 1
③	head of the clamping barrel	aluminium-magnesium alloy 1
④	dielectric - plus contact	Ultramid® 1
⑤	dielectric - minus contact	Dyneon® 1
⑥	plus contact Cu/Ag	copper Cu or fine silver Ag 1
⑦	minus contact Cu/Ag	copper Cu or fine silver Ag 1
⑧	cap	brass alloy 1
⑨	Torx® screw M4 x 4	brass alloy 1
extent of delivery: 1-9 assembled		
revision date: 04.12.2003		

Pat. pend. 102 58689 6-34
 Int. Pat. No. EP 0 460 145 B1
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 Ultramid is a reg. trademark of BASF.
 Dyneon is a reg. trademark of 3M.
 Torx is a reg. trademark of Camcar Textron, USA.



all dimensions in mm
original size



it is only because of the technical drawing that the Torx® screw is turned by 180°

WBT-0110 Cu/Ag nextgen

RCA/Cinch wideband plug for digital and analogue connections

- Mechanics
 - single-element, low-tolerance contact elements made of pure non-alloyed copper or fine silver (punching-bending technique used)
 - Central Contact Unit (4), (5), (6) und (7) consisting of:
 - Ultramid® dielectric (4) with two moulded contact holders and the plus contact embedded in it (6) as well as
 - the Dyneon® dielectric (5) and the minus contact embedded in it (7).
 - the Ultramid® holding unit (1) grips the Central Contact Unit and also provides the cable strain relief thanks to the grub screw (Torx®T.6).
 - the electrical insulated aluminium clamping barrel (2) und (3) is axially screwed over the thread of the holder and provides a permanent tight contact pressure. This way the plug can be adopted perfectly by every type of RCA/Cinch socket.
 - the shielding of the plug against EMC can be achieved effectively through the clamping barrel (2) and (3) as well as through the cap made of brass (8).
- Materials
 - contact parts made of pure copper or fine silver
 - the two-piece dielectric (4) is made of glass-fiber reinforced (30 %) polyamide 6.6 and of (5) PFA fluorothermoplastics.
 - the holding unit (1) is made of glass-fiber reinforced (30 %) polyamide 6.6.
 - the cap (8) and the grub screw (9) are made of a brass alloy.
 - the clamping barrel (2) und (3) is made of an aluminium-magnesium alloy with a coloured anodized ceramic surface.
- Surfaces
 - the contact parts (6) und (7) have a nickel-free galvanic coating:
 - the copper version with pure fine gold 0.5 µm
 - the silver version with pure platinum 0.4 µm
 - the cap (8) is gold-plated without nickel (copper version) resp. platinized (silver version).
 - the clamping barrel (2) und (3) has an inner and outer anodized ceramic surface and is finally laser engraved.
 - the holding unit (1) is available with 9 different colour codings for multichannel systems according to the EIA/CEA-863 norm.
- Environment
 - This product complies with the (European) environmental regulations EU – 2003(95 EG (RoHS) dated Jan. 27, 2003 and the Sony Standard SS 00259 dated April 01, 2003 (green partner) as well as the UL-style inflammability regulations (inflammability classification V..0.).
- Operating characteristics (reliably observed after more than 10³ connections/disconnections)
 - constant current $I_0 > 3 \text{ A}$
 - contact resistance $R_c \leq 0.5 \text{ mohms}$ (loop, measured with WBT-0210)
 - volume resistance $R_v \leq 0.5 \text{ mohms}$
 - self-capacitance $C \gg 2.4 \text{ pF}$
 - characteristic impedance (projective) $Z = 75 \text{ ohms}$
 - wideband characteristics  1 GHz
- Connections
 - soldering technique, for cables up to 1.5 mm² (17 AWG)
- Dimensions
 - outer diameter 13.6 mm / total length 51 mm / for cables up to 9 mm dia.