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Product Specification Part Number: 22-002-06 and -07 Model: HD-30RB250, HD-30RB500 HDMI 30 AWG ribbon wires Product Image **Product Drawing** PVC JACKET AL.MYLAR CONDUCTOR INSULATION AL.MYLAR DRAIN V General **Features and Benefits** > HDMI 2.0 High Speed, 4k, 3D, HEAC; Luxi patented Jacket color and material: black matt PVC

- > UL VW-1 rating (eqv. IEC 60332-2) for in wall installations
- > Designed to work with Luxi DIY field termination system
- > Dual ribbon design ensuring super fast, error free termination
- > Ribbons folded into a round jacket for easy pulling
- > Coated conductor to prevent oxidation
- > Ribbon design eliminating signal jitter for clearer eye pattern
- > Tight impedance tolerance reducing signal reflection
- > PE skin insulation reducing signal attenuation
- > Aluminum Mylar with 100% coverage for best shielding
- > Available in 250' (76 m) and 500' (152 m) spools
- > Packed in self dispensing box (spool in a box)
- > RoHS compliant

Package

Packed in self dispensing box, available in 2 sizes P/N 22-002-06, 250' (76 m); P/N 22-002-07, 500' (152 m)



Box length: 16.1" (41 cm) Box width: 9.0" (23 cm) Box height: 15.7" (40 cm)

Gross weight: 16.5 lb (7.5 kg); 27.5 lb (12.6 kg) respectively

Other Related Products

Hand tool, P/N 68-011-01, model DIY-28T



DIY connectors and clamshells. 10 sets of components. P/N 68-010-01, model DIY-30BS10, in two PET trays



HDMI Extender P/N 74-035-01 model EHD-111



Overall jacket diameter: 0.28" (7.0 mm)

HDMI specs: rev 1.4 Cat2 High Speed HEAC compatible UL: pass UL-1581 VW-1; equivalent to IEC 60332-2 Jacket marking: LUXi High Speed HDMI™ ribbon wire AWM 20276 E129757-3 80°C 30V VW-1

Top ribbon cable, 11 wires

Conductor: 1x0.254mm=30 AWG (0.26mm) tinned copper Insulation: TPE, thickness 0.006" (0.15mm)

Shielding: Aluminum Mylar, 100% coverage, 25% overlay

Bottom ribbon cable, 9 wires

Conductor: 1x0.254mm=30 AWG (0.26mm) tinned copper Insulation: TPE, thickness 0.006" (0.15mm)

Shielding: Aluminum Mylar, 100% coverage, 25% overlay

Overall

Min jacket thickness: 0.020" (0.51 mm)

Shielding: Aluminum Mylar, 100% coverage, 25% overlay Drain wire: 7x0.1mm=30 AWG (0.26mm) tinned copper

Braid: 16x9x0.1 mm, tinned copper

Electrical

Supported formats: 4k, 3D, deep color, 1080p, etc. Max data rate: depends on cable length; 18 Gbps at 2 m

Max cable length: 12 m (40') at 1080p typical up to 28 m (93') with Luxi HDMI Extender

Temperature rating: 80° C

Voltage rating: 30 V

Conductor resistance: at 20° C, 361 Ω/km

FEXT: <-25 dB, 1 MHz to 5 GHz

Impedance at connector termination: 100 +0/-7 Ω

Attenuation: 0.3~825 MHz ~3.2 dB/2m

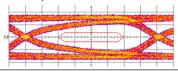
0.825~2.475 GHz ~7.2 dB/2m 2.475~4.125 GHz ~11 dB/2m

4.125~5.1 GHz ~13 dB/2m

Propagation delay: within a pair ~450 ps / cable

Skew between pairs: ~40 ps / cable

Eye pattern 2 m 5 Gbps (1080p)



Physical

Tensile strength: un-aged: 1500 psi min; aged: 70% min

Elongation: un-aged: 100% min; aged: 65%

Heat shock test: no cracking Cold bend test: no cracking Deformation test: max 50%

Document name: HD-300RB specs Revision: 2.00 Date: 1/28/2015 US patents: 8002572, 8507796 issued; additional patents issued or pending in multiple countries Specifications are subject to change without notice