



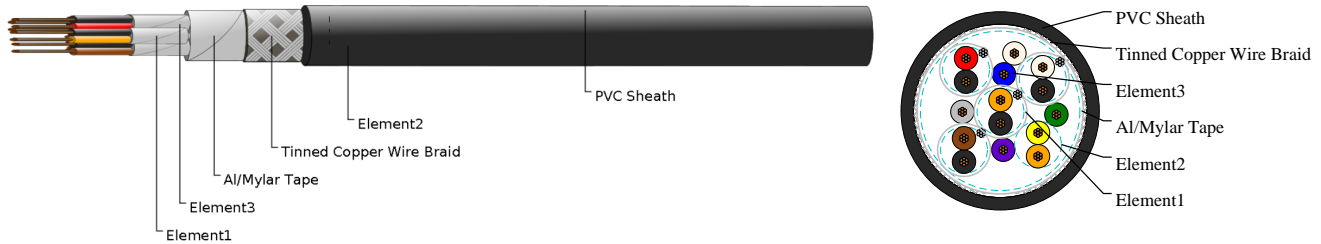
Caledonian

Composite Cables

www.caledonian-cables.com

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HDMI Bulk Cable(5 Pairs+5 Conductors)



FIRE PERFORMANCE

Vertical flame propagation for a single insulated wire or cable	EN 50265-2-1; IEC 60332-1-2; NF C 32-070 2.1 (C2)
Vertical flame spread of vertically mounted bunched wires or cables	EN 50266-2-4 + EN 50305; IEC 60332-3-24; NF C 32-070 2.2 (C1); VDE 0472 Teil 804
Low Smoke Emission	EN 50268-2; IEC 61034-2; NF C 32-073 ;NF C 20-902; NF F 16 101; VDE 0472 Teil 816
Halogen Free	EN 50267-2-1; IEC 60754-1; NF C 32-074; NF C 20-454; VDE 0472 Teil 815
Low Corrosivity (Acidity & Conductivity)	EN 50267-2-2/3; IEC 60754-2; NF C 32-074; NF C 20-453; VDE 0472 Teil 813
Low Toxicity	EN 50305; NF X 70-100; NF F 63 808; TM1-04; BS6853
Smoke Index	NF F 63 808; BS6853; NF F 16 101
Fire Performance Relating to Rolling Stock Application	DIN 5510-2;BS 6853;NF F16 101;NF F 63 808

CABLE CONSTRUCTION

Element 1:4PR×30AWG(Cu/Foam Skin/Individual Al-mylar Screen+ TC Drain Wire)

Conductor: Stranded bare copper wire, 30AWG(7/38AWG)

Insulation: Foam skin. Thickness 0.235mm. Outer diameter 0.76+0.05mm

Core Identification :1PR=Black/White; 2PR=Black/Brown, 3PR=Black/red; 4PR=Black/Orange

Twisting: The cores shall twisted together in pair, the lay between each twist shall not exceed 100 mm

Individual Shield:Aluminum/ mylar laminated tape applied with the metallic side down in electrical contact with a 30AWG tinned copper drain wire (7 strands formation).A 23 micron mylar tape is applied over the screening tape with a minimum 25% overlap

Element 2: 1PR×30AWG(7/38AWG) Stranded TC/PP

Conductor: Stranded bare copper wire, 30AWG(7/38AWG)

Insulation: PP. Thickness 0.13mm. Outer diameter 0.55+0.05mm

Insulation Color: Yellow and orange

Twisting: The cores shall twisted together in pair, the lay between each twist shall not exceed 100 mm



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Element 3: 5C×30AWG(7/38AWG) Stranded TC/PP

Conductor: Stranded bare copper wire, 30AWG(7/38AWG)

Insulation: PP. Thickness 0.13mm. Outer diameter 0.55+0.05mm

Insulation Color: Blue, Green, Violet, Grey and White

Element Assembly

Overall Screen: Aluminum/ mylar tape

Braid Shield: Braid of tinned copper wire. Coverage $\geq 90\%$

Outer Sheath: LSFROH elastomeric sheath, Thickness 0.41mm. Outer diameter 5.2+0.19mm, other material is optional

Sheath Color: Black or as per the client's requirement

PHYSICAL AND THERMAL PROPERTIES

Temperature rating: -25°C to +80°C

Minimum bending radius: 3 x Overall Diameter

Electrical Properties

Rated voltage: 30V

Max conductor resistance at 20°C: ≤ 376 Ohm/Km

Min insulation resistance: $\geq 100M$ Ohm/m

Spark test: Min. AC 500V/0.15second

Nom. differential impedance: 100+5 Ohm