



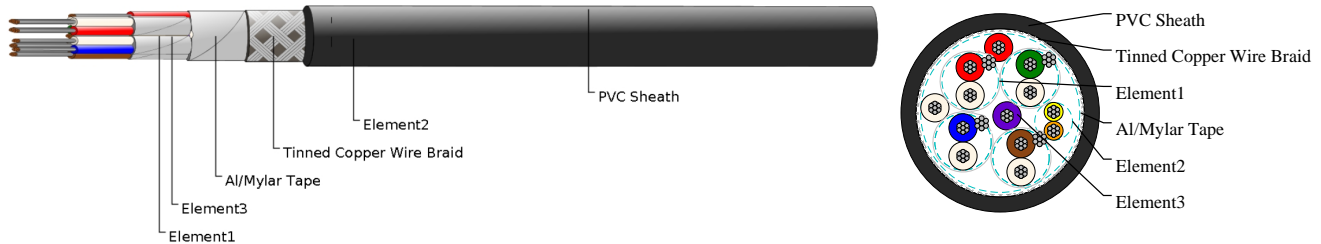
# Caledonian

Composite Cables

www.caledonian-cables.com

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## DVI Digital Single Link Cable(5 Pair+3C)



## 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×28AWG(Cu/S.S. cell/Individual Al-mylar Screen+ TC Drain Wire)

Conductor: Stranded annealed tinned copper wire, 7/36AWG

Insulation: S.S. cell. Thickness 0.305mm. Outer diameter 0.98+0.07mm

Core Identification: 1PR=White/Brown, 2PR=White/Red, 3PR=White/Green, 4PR=White/Blue

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 28AWG 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×28AWG(7/36AWG) Stranded TC/PE

Conductor: Stranded annealed tinned copper wire, 7/36AWG

Insulation: High density polyethylene. Thickness 0.165mm. Outer diameter 0.7+0.03mm

Insulation Color: Yellow and orange

Twisting: The cores shall twisted together in pair, the lay between each twist shall not exceed 100 mm,Outer diameter 1.4mm



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Element 3: 3C×28AWG(7/36AWG) Stranded TC/PE

Conductor: Stranded annealed tinned copper wire, 7/36AWG

Insulation: High density polyethylene. Thickness 0.15mm. Outer diameter 0.7+0.03mm

Insultion Color: Red/Purple/White

Element Assembly

Overall Screen:Aluminum/ mylar tape

Braid Shield:Braid of tinned copper wire. Coverage  $\geq 85\%$

Outer Sheath: PVC sheath,Thickness 0.87mm. Outer diameter 7.3+0.2mm, other materail is optional

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

## PHYSICAL AND THERMAL PROPERTIES

Physical Characteristic:

Temperature rating:  $-25^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$

Minimum bending radius: 3 x Overall Diameter

## Electrical Properties

Rated voltage: 30V

Max conductor resistance at  $20^{\circ}\text{C}$ :  $\leq 237$  Ohm/Km

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

Spark test: Min. AC 500V/0.15second

Nom. differential impedance:  $100+5$  Ohm

Mutual capacitance: 46pF/m