



# Caledonian

EN 50306 Rolling Stock Cables

www.caledonian-cables.com

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## FIREROL Thin Wall Multipair Overall Screen Cables with Standrad Wall Sheath 3P1.5

EN 50306-4 (FRL-TW-05MP-SW-OS)



### APPLICATIONS

- Used as signal and control cable for protected installations inside and outside of rail and transport vehicles, where space and weight are an important factor.
- Used in cable harnesses, switchboards and control panels, driver desks etc.

### VOLTAGE RATING

300/500 V

### CABLE CONSTRUCTION

- Conductor:Tinned annealed copper wires as defined in EN 50306-2
- Insulation:LSZH special compound
- Pair Identification:Pairs numbered according to EN 50306-4
- Overall Screen:Tinned annealed copper wires
- Outer Sheath:LSZH special compound (S2. EM 101 - EM 104)

### MECHANICAL PROPERTIES

- Max. Conductor Temperature:90 °C/105 °C (fixed installation)
- Min. Permissible Ambient Temperature:-25 °C/-40 °C (fixed installation)
- Bending Radius: 10 x Overall Diameter

### CHEMICAL AND ENVIRONMENTAL PROPERTIE

EN 60684-2	No fluorine
EN 50305; EN 60811-2-1	Resistance to mineral oil & fuel oil, acid & alkali
EN 50305	Resistance to ozone

### FIRE PERFORMANCE FOR ROLLING STOCK APPLICATION

EN 50306-2	Hazard levels HL1, HL2, HL3
DIN 5510-2	Protection level 1/2/3/4
BS 6853	Interior use 1a, 1b, II; Exterior use 1a, 1b, II
NF F 16-101	F0



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EN45545-2	R15 Interior/ R16 Exterior HL1, HL2, HL3
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## FIRE PERFORMANCE IN GENERAL

EN 50265-2-1; IEC 60332-1-2; NF C 32-070 2.1 (C2)	Vertical flame propagation for a single insulated wire or cable
EN 50266-2-4 + EN 50305; IEC 60332-3-24;NF C 32-070 2.2 (C1); VDE 0472 Teil 804	Vertical flame spread of vertically mounted bunched wires or cables
EN 50268-2; IEC 61034-2; NF C 32-073 ;NF C 20-902; NF F 16 101; VDE 0472 Teil 816	Low Smoke Emission
EN 50267-2-1; IEC 60754-1; NF C 32-074;NF C 20-454; VDE 0472 Teil 815	Halogen Free
EN 50267-2-2/3; IEC 60754-2; NF C 32-074;NF C 20-453; VDE 0472 Teil 813	Low Corrosivity (Acidity & Conductivity)
EN 50305; NF X 70-100; NF F 63 808; TM1-04; BS6853	Low Toxicity
NF F 63 808; BS6853; NF F 16 101	Smoke Index
EN45545-2	Requirement for fire behavior of materials & components R15/R16

## DIMENSION AND PARAMETERS

No. of Pairs × Cross-sectional Area	Min. Mean Thickness of Sheath	Overall Diameter (min.)	Overall Diameter (max.)	Approx. Weight
No.×mm <sup>2</sup>	mm	mm	mm	kg/km
3x2x1.5	0.56	10.4	11.4	168



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Abrasion Retardant



Acid & Alkaline Resistant



Cold Resistant



Fire Retardant  
NF C32-070-2,2(C1)  
IEC60332-3-2,4/EN50266-2-4



Flame Retardant  
NF C32-070-2,1(C2)  
IEC60332-1,2/EN50265-2-1



Highly Flexible



Impact Resistant



IRM 902  
Mineral Oil Resistant



IRM 903  
Fuel Oil Resistant



Low Corrosivity  
IEC60754-2/EN50267-2-2/3  
NF C32-074/NF C20-453



Low Smoke Emission  
IEC 61034-2 / EN 50268-2  
NF C32-073/NF C 20-902



Low Toxicity  
EN 50305; NF X70-100/NF  
F63 808/TM1-04/BS 6853



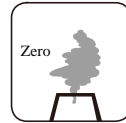
Ozone Resistant



Resistance To Soldering Heat



UV Resistant



Zero Halogen  
IEC 60754-1/EN 50267-2-1  
NF C20-454