



# Caledonian

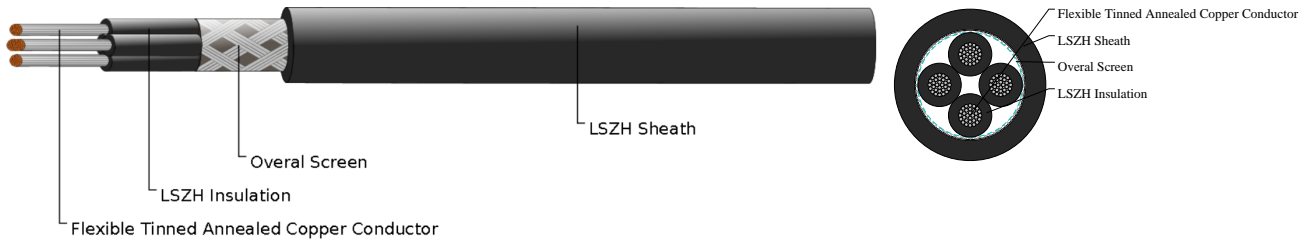
EN 50264 Rolling Stock Cables

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## FIREROL Standard Wall Multicore Overall Screened Cables

EN 50264-2-2 (FRL-SW-05M-OS)



### APPLICATIONS

- Used as power and control cable for protected installations inside and outside of rail and transport vehicles, where handling and installation cost are an important factor.
- Used in control, auxillary and main circuit wiring such as cable harnesses, switchboards and control panels, driver desks etc.

### VOLTAGE RATING

300/500 V

### CABLE CONSTRUCTION

Conductor: Flexible tinned annealed copper wires, stranded as per HD 383 (IEC 60228) class 5

Insulation: LSZH elastomeric compound as defined in EN 50264-1 (EI 101 to EI 105)

Overall Screen: Tinned annealed copper wires

Sheath: LSZH elastomeric compound as defined in EN 50264-1 (EM 101 to EM 104)

### MECHANICAL PROPERTIES

Max. Conductor Temperature: 90 °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 Conductors × Cross-sectional Area	Conductor Diameter	Min. Mean Thickness of Insulator	Min. Mean Thickness of Sheath	Diameter Of Core (min.)	Diameter Of Core (max.)	Overall Diameter (min.)	Overall Diameter (max.)	Min. Wire Diameter of Screen	Approx. Weight	Max. Conductance Resistance at 20 °C	Min. Insulation Resistance (EI 105) 20°C	Min. Insulation Resistance (EI 104) 20°C
No. × mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	MΩ × km	MΩ × km	MΩ × km
4×1.5	1.5	0.7	1.4	2.8	3.3	10.1	11.8	0.16	200	13.7	120	60



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Abrasion Retardant



Acid & Alkaline Resistant



Cold Resistant



Corona Resistant



Fire Retardant  
NF C32-070-2,2(C1)  
IEC60332-3-24/EN50266-2-4



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



Highly Flexible



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