

DFS Standard 60

Fire alarm cable, 300/500V

halogen-free, with improved fire characteristics,
BS 7629-1 and BS 5839-1:2013 Clause 26.2d



- 1 Conductor: solid copper wire
- 2 Insulation: EN 50363-5, flame-resistant, low smoke, halogen-free
- 3 Drain wire: tinned copper circuit protection conductor (earth wire)
- 4 Shielding: Aluminium foil with a copolymer backing, halogen-free, bonded to the outer sheath
- 5 Sheath: FRNC/LSZH



Description

Cable for fire alarm systems and emergency lighting.
For permanent installation in buildings. Suitable for use in Hazardous Areas Zones 1 and 2.
Optimized for fast termination: The aluminium foil is bonded to the inside of the sheath by a copolymer backing. So it is removed together with the sheath when terminating.
Permitted operating temperature at conductor of +90°C.

Construction

Conductor	Bare copper, solid, IEC 60228 and EN 60228
Insulation	Special compound, BS EN 50363-5
Core colours	HD 308 S2, BS 7629-1
Shielding	Aluminium foil and tinned copper circuit protection conductor (earth wire), IEC 60228, EN 60228
Outer sheath material	Polyolefin compound, BS 7655-6.1, LTS3

General properties

Circuit integrity	PH 120
System circuit integrity	No
Installation temperature	0 °C - +70 °C
Operating temperature	-40 °C - +90 °C

Electrical properties

Nominal voltage	300/500V
Test voltage at 50Hz	2,000 V

Mechanical properties

Minimum bending during installation (multi core)	6 x D
Minimum bending radius permanent (multi core)	6 x D

Standards

Circuit integrity	IEC 60331 (180 minutes), VDE 0472-814 (FE180), BS 6387 C/W/Z, IEC 60331-2 (120 minutes), VDE 0482-200 (PH120), BS EN 50200 (PH120)
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Section 4.3.3 SD
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Section 4.3.3 SA
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Section 4.3.3 F1
Flame spread	IEC 60332-3-24/-25, EN 60332-3-24/-25, VDE 0482-332-3-24/-25, AREI-RGIE Section 4.3.3 F2
LPCB Certificate	LPCB Certificate Number: 172i, Issue: 02

Versions

Material number	Product	Outer sheath colour	Outer sheath diameter [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
18720410ZN	DFS Standard 60 2 x 1 mm ²	red	7.8	29	80	0.17	100 m drum	40393910099119
18720510ZN	DFS Standard 60 2 x 1 mm ²	white	7.8	29	82	0.17	100 m drum	40393910099058
18720410ZM	DFS Standard 60 2 x 1 mm ²	red	7.8	29	80	0.17	200 m drum	40393910099126
18720510ZM	DFS Standard 60 2 x 1 mm ²	white	7.8	29	82	0.17	200 m drum	40393910099065
18720410ZL	DFS Standard 60 2 x 1 mm ²	red	7.8	29	82	0.17	500 m drum	40393910099133
18720510ZL	DFS Standard 60 2 x 1 mm ²	white	7.8	29	82	0.17	500 m drum	40393910099072
18720910ZN	DFS Standard 60 2 x 1.5 mm ²	red	8.3	43	97	0.19	100 m drum	40393910098907
18716110ZN	DFS Standard 60 2 x 1.5 mm ²	white	8.3	43	97	0.19	100 m drum	40393910099232
18720910ZM	DFS Standard 60 2 x 1.5 mm ²	red	8.3	43	97	0.19	200 m drum	40393910098914
18716110ZM	DFS Standard 60 2 x 1.5 mm ²	white	8.3	43	97	0.19	200 m drum	40393910099249
18720910ZL	DFS Standard 60 2 x 1.5 mm ²	red	8.3	43	97	0.19	500 m drum	40393910098921
18716110ZL	DFS Standard 60 2 x 1.5 mm ²	white	8.3	43	97	0.19	500 m drum	40393910099256
18721410ZN	DFS Standard 60 2 x 2.5 mm ²	red	9.7	72	141	0.26	100 m drum	40393910098600
18716210ZN	DFS Standard 60 2 x 2.5 mm ²	white	9.7	72	141	0.26	100 m drum	40393910099171
18721410ZM	DFS Standard 60 2 x 2.5 mm ²	red	9.7	72	141	0.26	200 m drum	40393910098617
18716210ZM	DFS Standard 60 2 x 2.5 mm ²	white	9.7	72	141	0.26	200 m drum	40393910099188
18721410ZL	DFS Standard 60 2 x 2.5 mm ²	red	9.7	72	141	0.26	500 m drum	40393910098624
18716210ZL	DFS Standard 60 2 x 2.5 mm ²	white	9.7	72	141	0.26	500 m drum	40393910099195
18724810ZN	DFS Standard 60 2 x 4 mm ²	red	11.9	96	200	0.39	100 m drum	40393910098303
18724810ZM	DFS Standard 60 2 x 4 mm ²	red	11.9	96	200	0.39	200 m drum	40393910098310
18724810ZL	DFS Standard 60 2 x 4 mm ²	red	11.9	96	200	0.39	500 m drum	40393910098327
18721010ZN	DFS Standard 60 3 x 1.5 mm ²	red	8.7	58	129	0.23	100 m drum	40393910098846
18721110ZN	DFS Standard 60 3 x 1.5 mm ²	white	8.7	58	129	0.23	100 m drum	40393910098785
18721010ZM	DFS Standard 60 3 x 1.5 mm ²	red	8.7	58	129	0.23	200 m drum	40393910098853

Material number	Product	Outer sheath colour	Outer sheath diameter [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Packing unit	GTIN / EAN
18721110ZM	DFS Standard 60 3 x 1.5 mm ²	white	8.7	58	129	0.23	200 m drum	40393910098792
18721010ZL	DFS Standard 60 3 x 1.5 mm ²	red	8.7	58	129	0.23	500 m drum	40393910098860
18721110ZL	DFS Standard 60 3 x 1.5 mm ²	white	8.7	58	129	0.23	500 m drum	40393910098808
18721510ZN	DFS Standard 60 3 x 2.5 mm ²	red	10.3	96	191	0.31	100 m drum	40393910098549
18721610ZN	DFS Standard 60 3 x 2.5 mm ²	white	10.3	96	191	0.31	100 m drum	40393910098488
18721510ZM	DFS Standard 60 3 x 2.5 mm ²	red	10.3	96	191	0.31	200 m drum	40393910098556
18721610ZM	DFS Standard 60 3 x 2.5 mm ²	white	10.3	96	191	0.31	200 m drum	40393910098495
18721510ZL	DFS Standard 60 3 x 2.5 mm ²	red	10.3	96	191	0.31	500 m drum	40393910098563
18721610ZL	DFS Standard 60 3 x 2.5 mm ²	white	10.3	96	191	0.31	500 m drum	40393910098501
18721210ZN	DFS Standard 60 4 x 1.5 mm ²	red	9.7	72	145	0.28	100 m drum	40393910098723
18721310ZN	DFS Standard 60 4 x 1.5 mm ²	white	9.7	72	145	0.28	100 m drum	40393910098662
18721210ZM	DFS Standard 60 4 x 1.5 mm ²	red	9.7	72	145	0.28	200 m drum	40393910098730
18721310ZM	DFS Standard 60 4 x 1.5 mm ²	white	9.7	72	145	0.28	200 m drum	40393910098679
18721210ZL	DFS Standard 60 4 x 1.5 mm ²	red	9.7	72	145	0.28	500 m drum	40393910098747
18721310ZL	DFS Standard 60 4 x 1.5 mm ²	white	9.7	72	14,500	0.28	500 m drum	40393910098686
18721710ZM	DFS Standard 60 4 x 2.5 mm ²	red	11.4	120	222	0.39	200 m drum	40393910098433
18815510ZM	DFS Standard 60 4 x 2.5 mm ²	white	11.4	120	222	0.39	200 m drum	40393910098628
18721710ZL	DFS Standard 60 4 x 2.5 mm ²	red	11.4	120	222	0.39	500 m drum	40393910098440
18815510ZL	DFS Standard 60 4 x 2.5 mm ²	white	11.4	120	222	0.39	500 m drum	40393910098635

Other dimensions available on request. All dimensions in 100, 200 or 500 m length on drum.

Subject to technical modification

As of 2023-12-20 11:17:21