

# 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
Sheath:	Polyolefin compound, BS 7655-6.1, LTS3, flame-retardant
Sheath colour:	Red or white

## ELECTRICAL PROPERTIES

Nominal voltage:	300/500V
Test voltage:	2000V, 50Hz

## MECHANICAL PROPERTIES

Minimum bending radius	during and permanent installation:	6 x D (D = outer diameter)
Operating temperature	permanent installation:	-40°C to +90°C
	during installation:	0°C to +70°C

## NOTE

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

**Please complete the 9-digit number with N (for 100 m), M (for 200 m) or L (for 500 m) when ordering.**

# 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



### STANDARDS

Zero halogen, no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
Flame spread	IEC 60332-3-24/-25 Cat.C/D, EN 60332-3-24/-25 Cat.C/D, VDE 0482-332-3-24/-25 Cat.C/D, AREI-RGIE Art.104-F2
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD
Circuit Integrity	BS 6387 (Categories C, W & Z), BS EN 50200 Annex E (30 minutes), BS EN 50200 (PH120), VDE 0482-200 (PH120), AREI-RGIE Art.104-FR1

### VERSIONS

Article Number	Product	Sheath colour	Dimensions n x [mm2]	Sheath Ø [mm]	Weight [kg/km]	Cu rate [kg/km]	Fire load [kWh/m]
18720400Z..	DFS Standard 60	red	2 x 1	7.35	80	29	0.17
18720500Z..	DFS Standard 60	white	2 x 1	7.35	80	29	0.17
18720900Z..	DFS Standard 60	red	2 x 1.5	7.6	95	43	0.19
18716100Z...	DFS Standard 60	white	2 x 1.5	7.6	95	43	0.19
18721400Z..	DFS Standard 60	red	2 x 2.5	9.0	141	72	0.26
18716200Z..	DFS Standard 60	white	2 x 2.5	9.0	141	72	0.26
18720600Z..	DFS Standard 60	red	3 x 1	7.95	95	38	0.20
18815400Z..	DFS Standard 60	white	3 x 1	7.95	95	38	0.20
18721000Z..	DFS Standard 60	red	3 x 1.5	8.7	129	58	0.23
18721100Z..	DFS Standard 60	white	3 x 1.5	8.7	129	58	0.23
18721500Z..	DFS Standard 60	red	3 x 2.5	9.5	191	96	0.31
18721600Z..	DFS Standard 60	white	3 x 2.5	9.5	191	96	0.31
18720700Z..	DFS Standard 60	red	4 x 1	8.2	109	48	0.25
18720800Z..	DFS Standard 60	white	4 x 1	8.2	109	48	0.25
18721200Z..	DFS Standard 60	red	4 x 1.5	9.0	145	72	0.28
18721300Z..	DFS Standard 60	white	4 x 1.5	9.0	145	72	0.28
18721700Z..	DFS Standard 60	red	4 x 2.5	11.4	222	120	0.39
18815500Z..	DFS Standard 60	white	4 x 2.5	11.4	222	120	0.39

Please add:

..N for 100 m

..M for 200 m

..L for 500 m