

POLYENEX – Unified-FS Series – 0.6/1.0kV HF-WP (TYPE-S)

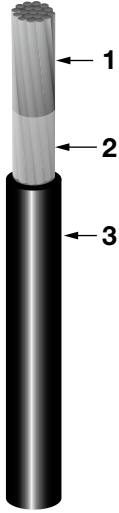
Single
core

Fire Protection Levels

EN45545-2
Int. HL3 / ext.HL3

BS6853
Int. Ia / ext. Ia

DIN5510-2
1, 2, 3, 4



Properties

Halogen Free, High flame resistance, Low smoke fume, Low toxicity, Heat/cold resistance

Application

Single core cable that is applied to fixed internal/external wiring for rolling stock

Construction

1. CONDUCTOR

Stranded with tin-coated annealed copper wire

2. SEPARATING TAPE

Add appropriate tape if necessary

3. INSULATION

Cross-linked polyolefin (black)

- Rated voltage U_0/U
AC 0.6/1.0kV
- Operating temp. range
-40~120°C

Cable characteristics



Rated voltage
 U_0/U
AC 0.6/1.0 kV



Operating
temp. range
-40~120°C



Flame
retardant
IEC60332-1-2



Fire retardant
IEC60332-3-24
IEC60332-3-25
EN50305
BS6853



Smoke density
IEC61034-2
BS6853
DIN5510-2



Gases toxicity
EN50305
BS6853
DIN5510-2



Halogen free



Oil and fuel
resistant
good



Acid and alkaline
resistant
good



Ozone resistant
good



Cold resistant
good



Minimum bending
radius when
installed
4D



Minimum bending
radius when
laying
4D

Conductor		Max. overall diameter (mm)	Max. conductor resistance at 20°C (Ω /km)	Approx. weight (kg/km)
Nominal cross section (mm ²)	Max. diameter of wires (mm)			
0.5	0.21	2.10	40.1	8.1
0.75	0.21	2.30	26.7	11
1.0	0.21	2.55	20.0	14
1.5	0.26	2.80	13.7	20
2.5	0.26	3.40	8.21	31
4	0.31	4.05	5.09	48
6	0.31	4.85	3.39	70
10	0.41	6.00	1.95	115
16	0.41	7.40	1.24	165
25	0.41	9.10	0.795	260
35	0.41	10.40	0.565	375
50	0.41	12.10	0.393	505
70	0.51	14.60	0.277	735
95	0.51	16.20	0.210	960
120	0.51	18.20	0.164	1240
150	0.51	20.60	0.132	1530