

POLYENEX – Unified-FS Series – NH-WEXO 102S/103S/104S

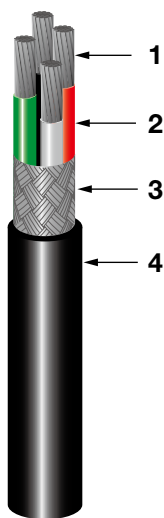
multi
core
screened

Fire Protection Levels

EN45545-2
Int. HL3 / ext. HL3

BS6853
Int. Ia / ext. Ia

DIN5510-2
1, 2, 3, 4



- Rated voltage
AC 600V
- Operating temp. range
-40~110°C

Properties

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

Application

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

Construction

1. CONDUCTOR

Stranded with tin-coated annealed copper wire

2. INSULATION

Cross-linked polyethylene (black, white, red, green)

3. SCREEN

Tin-coated annealed copper braid shield

4. SHEATH

Cross-linked polyolefin (black)

Cable characteristics



Rated voltage
AC 600V



Operating
temp. range
-40~110°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
-40°C



Minimum bending
radius when
installed
4D



Minimum bending
radius when
laying
4D

No. of cond. x Cross section (mm ²)	Insulation thickness (mm)	Screen thickness (mm)	Sheath thickness (mm)	Overall diameter(mm)		Max. conductor resistance at 20°C (Ω/km)	Approx. weight (kg/km)
				min	max		
2x0.5	0.3	0.3	1.0	5.2	6.2	39.8	47
2x0.75	0.3	0.3	1.0	5.5	6.5	26.6	55
2x1.0	0.3	0.3	1.0	5.9	6.9	20.6	60
3x0.5	0.3	0.3	1.0	5.4	6.4	39.8	60
3x0.75	0.3	0.3	1.0	5.9	6.9	26.6	65
3x1.0	0.3	0.3	1.0	6.2	7.2	20.6	75
4x0.5	0.3	0.3	1.0	5.8	6.8	39.8	60
4x0.75	0.3	0.3	1.0	6.2	7.2	26.6	80
4x1.0	0.3	0.3	1.0	6.6	7.6	20.6	90