

ENVIROLEX® Flexible Multicore 90°C

Contact

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Multicore flexible copper conductor, 0.6/1kV X-90 insulated, HFS-90-TP sheathed to AS/NZS 5000.1

DESCRIPTION

- Class 5 flexible conductor
- 0.6/1kV cables,
- Flexible, X-90 insulated
- HFS-90-TP sheathed to AS/NZS 5000.1 (Power)
- 90°C continuous, LSOH.
- Submersible to 500m

90; Flexible; LSOH, LSZH; Envirolex; Green Star; Mains; Sub Mains; Flame Retardant



STANDARDS

International IEC 60332-1;
IEC 60754-1

National AS/NZS 5000.1

CHARACTERISTICS

Construction characteristics

With Green/Yellow core

Yes

Electrical characteristics

Rated Voltage U_o/U (Um)

0.6/1 kV

Mechanical characteristics

Cable flexibility

Flexible

Usage characteristics

U.V resistance

Yes

Maximum operating temperature

90 °C

Minimum operating temperature

-25 °C



Rated Voltage U_o/U (Um)
0.6/1 kV



Cable flexibility
Flexible



U.V resistance
Yes



Maximum operating temperature
90 °C



Minimum operating temperature
-25 °C

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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PRODUCT LIST

Nexans ref.	Country ref.	Name	Cross section [mm ²]	Nb. of cores	Nom. overall diam. [mm]	Approx. weight [kg/100m]
DTHR04HF002OMHF	9613	CU ENVIRO RHE-1-FLEX 2X 1.5+E OG	1.5	2	10.7	15.0
DTHR05HF002OMHF	8293	CU ENVIRO RHE-1-FLEX 2X2.5+E OG	2.5	2	11.6	19.2
DTHR06HF002OMHF	8340	CU ENVIRO RHE-1-FLEX 2X4+2.5E OG	4	2	12.9	24.1
DTHR07HF002OMHF	9893	CU ENVIRO RHE-1-FLEX 2X 6+2.5E OG	6	2	55.0	30.4
FTHR04HF003OMRJ	1017	CU ENVIRO RHE-1-FLEX 3X1.5+E OG	1.5	3	11.5	17.8
FTHR05HF003OMRJ	6257	CU ENVIRO RHE-1-FLEX 3X2.5+E OG	2.5	3	12.5	23.1
FTHR06HF003OMRJ	1202	CU ENVIRO RHE-1-FLEX 3X4+2.5E OG	4	3	13.8	27.7
FTHR07HF003OMRJ	2611	CU ENVIRO RHE-1-FLEX 3X6+2.5E OG	6	3	14.9	35.3
FTHX01HF003OMRJ	4662	CU ENVIRO RHE-1-FLEX 3X10+4E OG	10	3	17.7	51.9
HTHR04HF004OMEM	9501	CU ENVIRO RHE-1-FLEX 4X1.5+E OG	1.5	4	12.5	21.0
HTHR05HF004OMEM	7956	CU ENVIRO RHE-1-FLEX 4X2.5+E OG	2.5	4	13.6	27.5
HTHR06HF004OMEM	7524	CU ENVIRO RHE-1-FLEX 4X4+2.5E OG	4	4	15.0	33.5
HTHR07HF004OMEM	4320	CU ENVIRO RHE-1-FLEX 4X6+2.5E OG	6	4	16.2	42.3
HTHX01HF004OMEM	5670	CU ENVIRO RHE-1-FLEX 4X10+4E OG	10	4	17.7	51.9
HTHX02HF004OMEM	8926	CU ENVIRO RHE-1-FLEX 4X16+6E OG	16	4	22.8	89.4
HTHX03HF004OMEM	3338	CU ENVIRO RHE-1-FLEX 4X25+6E OG	25	4	26.5	130.3
HTHX04HF004OMEM	7099	CU ENVIRO RHE-1-FLEX 4X35+10E OG	35	4	29.8	176.6



Rated Voltage U_o/U (Um)
0.6/1 kV



Cable flexibility
Flexible



U.V resistance
Yes



Maximum operating temperature
90 °C









Minimum operating temperature
-25 °C







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CURRENT CARRYING CAPACITY TABLES - ENVIROLEX MULTICORE SINGLE PHASE







Flexible Copper Conductor Circular stranded Insulation X-HF-90 Max. Conductor Temperature 90C







Conductor cross-section [mm ²]							VD
	Cu	Cu	Cu	Cu	Cu	Cu	Cu
1.5	26	25	22	26	27	12	34.7
2.5	35	33	30	36	35	18	25.4
4	47	44	39	48	46	23	11.8
6	61	56	48	60	58	30	7.87

 Air spaced from surface, unenclosed
  Air touching, unenclosed
  Air enclosed
 Buried direct
  Buried in single-way duct
  Cable surrounded by thermal insulation, unenclosed
VD Voltage Drop Three Phase (mV/A.m)

CURRENT CARRYING CAPACITY TABLE - ENVIROLEX-MULTICORE (THREE PHASE)

Flexible Copper Conductor Circular stranded Insulation X-HF-90 Max. Conductor Temperature 90C

Conductor cross-section [mm ²]						
	Cu	Cu	Cu	Cu	Cu	Cu
1.5	22	21	10	22	21	22
2.5	30	29	14	30	31	30
4	40	37	20	39	40	39
6	51	47	24	48	49	48
10	73	67	34	66	67	66
16	96	89	45	85	118	85
25	128	119	62	110	153	110
35	158	149	76	136	184	136

 Air spaced from surface, unenclosed
  Air touching, unenclosed
  Cable surrounded by thermal insulation, unenclosed
 Air enclosed
  Buried direct
  Buried in single-way duct



Rated Voltage U_o/U (Um)
0.6/1 kV



Cable flexibility
Flexible



U.V resistance
Yes



Maximum operating temperature
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