ENVIROLEX® Flexible Multicore 90°C

CU ENVIRO RHE-1-FLEX 3X 10+4E OG

Contact
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Nexans Ref.: FTHX01HF003OMRJ
Country Ref.: 4662

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



DESCRIPTION

ENVIROLEX® flexible multicore cable is part of the Nexans Fire Safety Offer. As a Low Fire Hazard (LFH) range, ENVIROLEX® is PVC-free, made with flame retardant compound and reduces toxic smoke emissions in the event of fire, allowing time for safe evacuation.

- 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
- Submersible to 500m
- Used for fixed application

STANDARDS

International IEC 60332-1; IEC 60754-1

National AS/NZS 5000.1

CHARACTERISTICS

Construction characteristics	
With Green/Yellow core	Yes
Conductor material	Copper
Type of conductor	Stranded copper
Insulation	X-HF-90
Outer sheath	HFS-90-TP
Colour	Orange
Conductor flexibility	Class 5
Conductor shape	Circular
Insulation colour	Red, White, Blue, Green/Yellow
With smaller neutral conductor	No
Dimensional characteristics	
Conductor cross-section	10 mm²
Number of cores	3
Approximate weight	51.9 kg/100m


Conductor flexibility
Class 5


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


Cable flexibility
Flexible


Mechanical resistance to impacts
-


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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Dimensional characteristics	
Maximum diameter of wires	0.41 mm
Neutral conductor section (when smaller)	- mm²
Nominal insulation thickness	0.7 mm
Nominal outer sheath thickness	1.8 mm
Nominal overall diameter	17.7 mm
Number of earth cores	1
Electrical characteristics	
Conductor AC resistance at 50 Hz	2.59 Ohm/km
Inductive reactance at 50Hz - flat touching	- Ohm/km
Inductive reactance at 50Hz - trefoil	- Ohm/km
Insulation resistance at 20°C	520 MOhm.km
Max. DC resistance of the conductor at 20°C	1.91 Ohm/km
Rated Voltage Uo/U (Um)	0.6/1 kV
Mechanical characteristics	
Cable flexibility	Flexible
Mechanical resistance to impacts	-
Usage characteristics	
U.V resistance	Yes
Maximum operating temperature	90 °C
Minimum operating temperature	-25 °C

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

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

Conductor cross-section						
[mm²]	Cu	Cu	Cu	Cu	Cu	Cu
10	73	67	34	66	67	66

 Air spaced from surface, unenclosed

 Air touching, unenclosed

 Cable surrounded by thermal insulation, unenclosed

 Air enclosed

 Buried direct

 Buried in single-way duct



Conductor flexibility
Class 5



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0.6/1 kV



Cable flexibility
Flexible



Mechanical resistance to impacts
-



U.V resistance
Yes



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SELLING AND DELIVERY INFORMATION

Nexans Fire Safety Offer ENVIROLEX® Low Fire Hazard Cables PVC-free Red List Free and Declare Labelled Green Star Flexible conductor



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Class 5



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Cable flexibility
Flexible



Mechanical resistance to impacts
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U.V resistance
Yes



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