ENVIROLEX® Flexible Multicore 90°C

CU ENVIRO RHE-1-FLEX 3X 2.5+E OG

Contact

Sales and Customer Solutions Phone: 0800 639 267 sales.nz@nexans.com

Nexans Ref.: FTHR05HF003OMRJ Country Ref.: 6257

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, E	Blue, Green/Yellow	
With smaller neutral conductor				No	
Dimensional characteristics					
Conductor cross-section				2.5 mm ²	
Number of cores				3	
Approximate weight				23.1 kg/100m	
Conductor flexibility Rated Voltage Uo/U Cable flex		U.V resistance	Maximum operating	Minimum operating	
Class 5 (Um) Flexible 0.6/1 kV	to impacts	Yes	temperature 90 °C	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. Generated 28/07/23 www.nexans.co.nz Page 1 / 3



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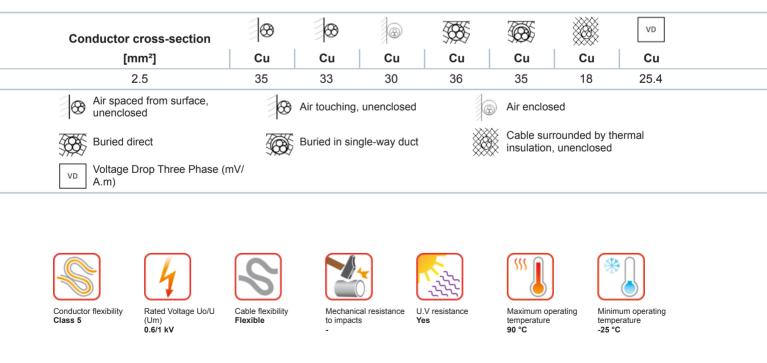
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Dimensional characteristics	
Maximum diameter of wires	0.26 mm
Neutral conductor section (when smaller)	- mm²
Nominal insulation thickness	0.7 mm
Nominal outer sheath thickness	1.8 mm
Nominal overall diameter	12.5 mm
Number of earth cores	1
Electrical characteristics	
Conductor AC resistance at 50 Hz	10.8 Ohm/km
Inductive reactance at 50Hz - flat touching	- Ohm/km
Inductive reactance at 50Hz - trefoil	- Ohm/km
Insulation resistance at 20°C	950 MOhm.km
Max. DC resistance of the conductor at 20°C	7.98 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 TABLES - ENVIROLEX MULTICORE SINGLE PHASE

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



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

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

Conductor cross-section	\otimes	8		8	\$ \$ \$		
[mm²]	Cu	Cu	Cu	Cu	Cu	Cu	
2.5	30	29	14	30	31	30	
Air spaced from surface, unenclosed	Air touching, unenclosed			Cable surrounded by thermal insulation, unenclosed			
Air enclosed	Bur	ied direct		Buried	d in single-way c	duct	

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



Class 5





Cable flexibility Flexible



Mechanical resistance to impacts



Yes





Minimum opera temperature -25 °C

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