

OVERALL SCREENED, UNARMoured, FIRE RESISTANT INSTRUMENTATION CABLE.

(MGT-XLPE / OSCR / LSZH RH)

RE-2X(St)H(ö) –fl –Cl

EG SF FR RH



Flame Retardant



Fire Retardant



EM Interferences Resistant



UV Resistant



ROHS Compliant

STANDARDS

NF M87-202
IEC 60332-1

UTE C 32-014
IEC 60332-3-24

NF C 32-020
IEC 60331

DESCRIPTION AND APPLICATION

Safety extra-low voltage cables used in petroleum and petrochemical units, particularly for the transmission of AC or DC analogue signals.

Unarmoured cables are used when there is no risk of mechanical damage (control room for example)

Fire Resistance according to IEC 60331.

Sheaths are resistant to aliphatic hydrocarbons

CONSTRUCTION

- **Conductors:** Solid (Class1) / stranded (Class2) annealed Copper, acc. to IEC 60228.
 - Model 05: 1 x 0,80 mm. – Section = 0,50 mm²
 - Model 09: 7 x 0,40 mm. – Section = 0,88 mm²
 - Model 15: 7 x 0,52 mm. – Section = 1,50 mm²
 - Model 25: 7 x 0,67 mm. – Section = 2,50 mm²
- **Insulation:** Mica tape + XLPE
- **Cabling elements:** Pairs or Triads (Quad configuration for 2-pair cable).
- **Core Identification:** Natural / Red / Blue / Yellow. Numbered on Natural conductor.
- **Core.** Units are assembled together spirally in concentric layers.
- **Core wrapping.** PETP tape. Minimum 30% overlap.
- **Collective screen.** Tinned copper drain wire under and in contact with aluminium/PETP 12/23 laminated tape applied metallic side down.
- **Outer Sheath:** LSZH compound, acc. to EN 50290-2-29. Hydrocarbon Resistant
- **Sheath marking :** The outer sheath shall be marked in white or black ink, at regular intervals, with the following information:
 - *Name of manufacturer/ Year/ Length marks*
 - *Other type of marks according to the customer*



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ELECTRICAL CHARACTERISTICS (20°C)	0,5 mm²	0,88 mm²	1,5 mm²	2,5 mm²
<i>Copper Conductor (Nr. Wires / Wire Diam.)</i>	1/0,8	7/0,40	7/0,52	7/0,67
<i>Conductor Resistance¹ (Ω/km).</i>	36,8	21,4	12,3	7,56
<i>Minimum Insulation Resistance (MΩxkm, 20°C, 500 Vdc).</i>	500			
<i>Mutual Capacitance (nF/km, 800 Hz). Max.</i>	100			
<i>Operating voltage (V.)</i>	300 / 500			
<i>Test Voltage (Vac./ Vcc., 1 min)</i>	1.500 / 2.000			

MECHANICAL CHARACTERISTICS	0,5 mm²	0,88 mm²	1,5 mm²	2,5 mm²
<i>Operating Temperature (°C)</i>	-25°C / +90°C			
<i>Installation Temperature (°C)</i>	-5°C / +50°C			
<i>Bend radius (mm.)</i>	10 x Ø cable			
<i>Flame Propagation</i>	UNE-EN 60332-1-2 / IEC 60332-1-2			
<i>Fire properties</i>	UNE-EN 60332-3-24 / IEC 60332-3-24			
<i>Fire Resistant</i>	IEC 60331-21			

¹ For paired conductors, EN 60228:2005 admits 2% additional conductor resistance.

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EB19253-Ed1

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SIZE, DIMENSIONS AND WEIGHTS

0,5 mm ² (1/0,8)		Pair				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1925350120100N	1	7,1	7,1	218,5	2.000	B08W000
EB1925350140100N	2	8,0	8,0	411,3	2.000	B08W000
EB1925350120300N	3	11,4	11,4	615,4	2.000	BA0W000
EB1925350120700N	7	14,9	14,9	1391,8	2.000	BA3W000
EB1925350121200N	12	17,2	17,2	2353,4	2.000	BA4W000
EB1925350121900N	19	20,5	20,5	3700,2	2.000	BA6W000
EB1925350122700N	27	23,8	23,8	5230,8	2.000	BA6W000

0,5 mm ² (1/0,8)		Triad				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1925350130100N	1	7,5	7,5	314,6	2.000	B08W000
EB1925350130300N	3	12,7	12,7	904,4	2.000	BA2W000
EB1925350130700N	7	15,6	15,6	2061,6	2.000	BA3W000
EB1925350131200N	12	19,6	19,6	3506,2	2.000	BA4W000
EB1925350131900N	19	23,8	23,8	5513,9	2.000	BA6W000
EB1925350132700N	27	27,8	27,8	7813,4	2.000	BB0W000

0,88 mm ² (7/0,40)		Pair				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1925388220100N	1	8,3	8,3	305,9	2.000	B08W000
EB1925388240100N	2	9,5	9,5	580,0	2.000	BA0W000
EB1925388220300N	3	14,2	14,2	876,9	2.000	BA3W000
EB1925388220700N	7	18,7	18,7	1981,7	2.000	BA4W000
EB1925388221200N	12	21,6	21,6	3350,2	2.000	BA6W000
EB1925388221900N	19	25,8	25,8	5265,6	2.000	BA8W000
EB1925388222700N	27	30,3	30,3	7455,3	2.000	BB0W000

0,88 mm ² (7/0,40)		Triad				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1925388230100N	1	8,8	8,8	442,5	2.000	B08W000
EB1925388230300N	3	15,9	15,9	1294,8	2.000	BA4W000
EB1925388230700N	7	19,3	19,3	2924,1	2.000	BA4W000
EB1925388231200N	12	24,4	24,4	4977,6	2.000	BA6W000
EB1925388231900N	19	30,2	30,2	7857,0	2.000	BB0W000
EB1925388232700N	27	35,4	35,4	11129,3	1.900	BBB0W000

1,5 mm ² (7/0,52)		Pair				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB19253A5220100N	1	9,1	9,1	392,7	2.000	BA0W000
EB19253A5240100N	2	10,4	10,4	750,2	2.000	BA0W000
EB19253A5220300N	3	15,9	15,9	1141,0	2.000	BA4W000
EB19253A5220700N	7	21,1	21,1	2585,8	2.000	BA6W000
EB19253A5221200N	12	24,3	24,3	4361,8	2.000	BA6W000
EB19253A5221900N	19	29,3	29,3	6876,4	2.000	BB0W000
EB19253A5222700N	27	34,3	34,3	9736,7	1.900	BBB0W000

1,5 mm ² (7/0,52)		Triad				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB19253A5230100N	1	9,6	9,6	570,7	2.000	BA0W000
EB19253A5230300N	3	17,7	17,7	1678,2	2.000	BA4W000
EB19253A5230700N	7	21,8	21,8	3819,2	2.000	BA6W000
EB19253A5231200N	12	27,6	27,6	6501,2	2.000	BB0W000
EB19253A5231900N	19	34,2	34,2	10262,5	1.900	BBB0W000
EB19253A5232700N	27	40,2	40,2	14540,1	1.300	BBB0W000

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SIZE, DIMENSIONS AND WEIGHTS

2,5 mm ² (7/0,67)		Pair				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB19253B5220100N	1	10,4	10,4	495,9	2.000	BA0W000
EB19253B5240100N	2	11,9	11,9	951,2	2.000	BA0W000
EB19253B5220300N	3	18,6	18,6	1447,3	2.000	BA4W000
EB19253B5220700N	7	25,0	25,0	3299,2	2.000	BA8W000
EB19253B5221200N	12	29,1	29,1	5579,4	2.000	BB0W000
EB19253B5221900N	19	34,9	34,9	8772,6	1.900	BBBW000
EB19253B5222700N	27	41,0	41,0	12421,7	1.300	BBBW000

2,5 mm ² (7/0,67)		Triad				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB19253B5230100N	1	10,9	10,9	722,3	2.000	BA0W000
EB19253B5230300N	3	20,8	20,8	2142,0	2.000	BA6W000
EB19253B5230700N	7	25,8	25,8	4872,5	2.000	BA8W000
EB19253B5231200N	12	32,9	32,9	8295,0	2.000	BBBW000
EB19253B5231900N	19	40,7	40,7	13091,1	1.300	BBBW000
EB19253B5232700N	27	47,9	47,9	18547,1	1.000	BBBW000

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