

## OVERALL SCREENED, DSTA ARMoured, FIRE RESISTANT INSTRUMENTATION CABLE

(MGT+XLPE / OSCR / LSZH RH / DSTA / LSZH RH) RE-2X(St)H(ö)BH(ö) –fl -CI

EG FA 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.

Armoured cables to be used when there is a risk of mechanical damage.

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 mm<sup>2</sup>
  - Model 09: 7 x 0,40 mm. – Section = 0,88 mm<sup>2</sup>
  - Model 15: 7 x 0,52 mm. – Section = 1,50 mm<sup>2</sup>
  - Model 25: 7 x 0,67 mm. – Section = 2,50 mm<sup>2</sup>
- **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.
- **Inner Sheath:** LSZH compound, acc. to EN 50290-2-29. Hydrocarbon Resistant
- **Armour:** 2 steel strips 0,2mm thick, acc. to NF C32-050.
- **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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EG FA FR RH

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

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

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

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**SIZE, DIMENSIONS AND WEIGHTS**

0,5 mm <sup>2</sup> (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
EB192BF50120100N	1	7,1	7,1	218,5	2.000	B08W000
EB192BF50140100N	2	8,0	8,0	411,3	2.000	B08W000
EB192BF50120300N	3	11,4	11,4	615,4	2.000	BA0W000
EB192BF50120700N	7	14,9	14,9	1391,8	2.000	BA3W000
EB192BF50121200N	12	17,2	17,2	2353,4	2.000	BA4W000
EB192BF50121900N	19	20,5	20,5	3700,2	2.000	BA6W000
EB192BF50122700N	27	23,8	23,8	5230,8	2.000	BA6W000

0,5 mm <sup>2</sup> (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
EB192BF50130100N	1	7,5	7,5	314,6	2.000	B08W000
EB192BF50130300N	3	12,7	12,7	904,4	2.000	BA2W000
EB192BF50130700N	7	15,6	15,6	2061,6	2.000	BA3W000
EB192BF50131200N	12	19,6	19,6	3506,2	2.000	BA4W000
EB192BF50131900N	19	23,8	23,8	5513,9	2.000	BA6W000
EB192BF50132700N	27	27,8	27,8	7813,4	2.000	BB0W000

0,88 mm <sup>2</sup> (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
EB192BF88220100N	1	8,3	8,3	305,9	2.000	B08W000
EB192BF882240100N	2	9,5	9,5	580,0	2.000	BA0W000
EB1921388220300N	3	14,2	14,2	876,9	2.000	BA3W000
EB192BF88220700N	7	18,7	18,7	1981,7	2.000	BA4W000
EB192BF88221200N	12	21,6	21,6	3350,2	2.000	BA6W000
EB192BF88221900N	19	25,8	25,8	5265,6	2.000	BA8W000
EB192BF88222700N	27	30,3	30,3	7455,3	2.000	BB0W000

0,88 mm <sup>2</sup> (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
EB192BF88230100N	1	8,8	8,8	442,5	2.000	B08W000
EB192BF88230300N	3	15,9	15,9	1294,8	2.000	BA4W000
EB192BF88230700N	7	19,3	19,3	2924,1	2.000	BA4W000
EB192BF88231200N	12	24,4	24,4	4977,6	2.000	BA6W000
EB192BF88231900N	19	30,2	30,2	7857,0	2.000	BB0W000
EB192BF88232700N	27	35,4	35,4	11129,3	1.900	BBB0W000

1,5 mm <sup>2</sup> (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
EB192BFA5220100N	1	9,1	9,1	392,7	2.000	BA0W000
EB192BFA52240100N	2	10,4	10,4	750,2	2.000	BA0W000
EB192BFA5220300N	3	15,9	15,9	1141,0	2.000	BA4W000
EB192BFA5220700N	7	21,1	21,1	2585,8	2.000	BA6W000
EB192BFA5221200N	12	24,3	24,3	4361,8	2.000	BA6W000
EB192BFA5221900N	19	29,3	29,3	6876,4	2.000	BB0W000
EB192BFA5222700N	27	34,3	34,3	9736,7	1.900	BBB0W000

1,5 mm <sup>2</sup> (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
EB192BFA5230100N	1	9,6	9,6	570,7	2.000	BA0W000
EB192BFA5230300N	3	17,7	17,7	1678,2	2.000	BA4W000
EB192BFA5230700N	7	21,8	21,8	3819,2	2.000	BA6W000
EB192BFA5231200N	12	27,6	27,6	6501,2	2.000	BB0W000
EB192BFA5231900N	19	34,2	34,2	10262,5	1.900	BBB0W000
EB192BFA5232700N	27	40,2	40,2	14540,1	1.300	BBB0W000

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SIZE, DIMENSIONS AND WEIGHTS

2,5 mm <sup>2</sup> (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
EB192BF85220100N	1	10,4	10,4	495,9	2.000	BA0W000
EB192BF85240100N	2	11,9	11,9	951,2	2.000	BA0W000
EB192BF85220300N	3	18,6	18,6	1447,3	2.000	BA4W000
EB192BF85220700N	7	25,0	25,0	3299,2	2.000	BA8W000
EB192BF85221200N	12	29,1	29,1	5579,4	2.000	BB0W000
EB192BF85221900N	19	34,9	34,9	8772,6	1.900	BBB0W000
EB192BF85222700N	27	41,0	41,0	12421,7	1.300	BBB0W000

2,5 mm <sup>2</sup> (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
EB192BF85230100N	1	10,9	10,9	722,3	2.000	BA0W000
EB192BF85230300N	3	20,8	20,8	2142,0	2.000	BA6W000
EB192BF85230700N	7	25,8	25,8	4872,5	2.000	BA8W000
EB192BF85231200N	12	32,9	32,9	8295,0	2.000	BBB0W000
EB192BF85231900N	19	40,7	40,7	13091,1	1.300	BBB0W000
EB192BF85232700N	27	47,9	47,9	18547,1	1.000	BBB0W000

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