

INDIVIDUAL&OVERALL SCREENED&SHEATHED, UNARMoured, INSTRUMENTATION CABLE

(PVC / ISCR / PVC / OSCR / PVC) RE-Y(St)Y(ö) -p/tIMF -fl EI SF



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

DESCRIPTION AND APPLICATION

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

Individual screen for improved EM protection between elements.

Individual sheath for improved mechanical protection between elements.

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

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
- **Insulation:** 90° PVC.
- **Cabling elements:** Pairs or Triads (Quad configuration for 2-pair cable).
- **Core Identification:** Natural / Red / Blue / Yellow. Numbered on Individual sheath
- **Individual screen.** Tinned cooper drain wire under and in contact with aluminium/PETP 12/23 laminated tape applied metallic side down.
- **Individual sheath.** Light Blue PVC sheath. 0,7mm avg. thickness.
- **Core.** Units are assembled together spirally in concentric layers.
- **Core wrapping.** PETP tape. Minimum 30% overlap.
- **Collective screen.** Tinned cooper drain wire under and in contact with aluminium/PETP 12/23 laminated tape applied metallic side down.
- **Outer Sheath:** PVC resistant to aliphatic hydrocarbons. Blue.
- **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 costumer



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ELECTRICAL CHARACTERISTICS (20°C)	0,5 mm²	0,88 mm²	1,5 mm²
<i>Copper Conductor (Nr. Wires / Wire Diam.)</i>	1/0,8	7/0,40	7/0,52
<i>Conductor Resistance¹ (Ω/km).</i>	36,8	21,4	12,3
<i>Minimum Insulation Resistance (MΩxkm, 20°C, 500 Vdc).</i>		500	
<i>Mutual Capacitance (nF/km, 800 Hz). Max.</i>	145	160	180
<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
<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	

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

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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

EB1914A50120300N	3	12,7	12,7	141,0	2.000	BA2W000
EB1914A50120700N	7	16,0	16,0	282,7	2.000	BA4W000
EB1914A50121200N	12	20,1	20,1	455,8	2.000	BA6W000
EB1914A50121900N	19	24,4	24,4	683,1	2.000	BA6W000
EB1914A50122700N	27	28,5	28,5	947,8	2.000	BB0W000

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

EB1914A50130300N	3	13,9	13,9	170,5	2.000	BA2W000
EB1914A50130700N	7	17,3	17,3	333,7	2.000	BA4W000
EB1914A50131200N	12	21,8	21,8	542,5	2.000	BA6W000
EB1914A50131900N	19	26,8	26,8	827,2	2.000	BB0W000
EB1914A50132700N	27	31,3	31,3	1147,7	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

EB1914A88220300N	3	15,4	15,4	218,0	2.000	BA3W000
EB1914A88220700N	7	18,8	18,8	421,9	2.000	BA4W000
EB1914A88221200N	12	23,7	23,7	691,1	2.000	BA6W000
EB1914A88221900N	19	29,4	29,4	1072,7	2.000	BB0W000
EB1914A88222700N	27	34,5	34,5	1492,1	1.900	BBB0W000

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

EB1914A88230300N	3	16,7	16,7	256,9	2.000	BA4W000
EB1914A88230700N	7	20,7	20,7	515,7	2.000	BA6W000
EB1914A88231200N	12	26,2	26,2	843,5	2.000	BA8W000
EB1914A88231900N	19	32,2	32,2	1293,4	2.000	BBB0W000
EB1914A88232700N	27	37,8	37,8	1802,6	1.600	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

EB1914AA5220300N	3	16,7	16,7	282,9	2.000	BA4W000
EB1914AA5220700N	7	20,8	20,8	577,0	2.000	BA6W000
EB1914AA5221200N	12	26,3	26,3	948,1	2.000	BA8W000
EB1914AA5221900N	19	32,3	32,3	1458,7	2.000	BBB0W000
EB1914AA5222700N	27	37,9	37,9	2037,3	1.600	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

EB1914AA5230300N	3	18,3	18,3	342,3	2.000	BA4W000
EB1914AA5230700N	7	22,8	22,8	707,3	2.000	BA6W000
EB1914AA5231200N	12	29,1	29,1	1180,5	2.000	BB0W000
EB1914AA5231900N	19	35,8	35,8	1818,4	1.600	BBB0W000
EB1914AA5232700N	27	42,0	42,0	2540,9	1.200	BBB0W000

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