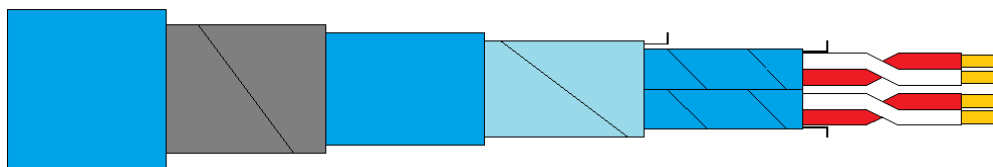


NF M87 202

INDEX:

- EGSF. OSCR & UN ARMoured.
- EISF. IOSCR & UN ARMoured.
- EGFA. OSCR & ARMoured.
- EIFA. IOSCR & ARMoured.
- EGSF FR MICA OSCR UN ARMoured.
- EISF FR MICA IOSCR & UN ARMoured.
- EGFA FR PVC MICA OSCR ARMoured.
- EIFA FR PVC MICA IOSCR ARMoured.
- EGFA FR LSZH MICA OSCR ARMoured.
- EIFA FR LSZH MICA IOSCR ARMoured.



NF M 87-202 EG SF

Cable Standard	Instrument Cable NF M 87-202
Voltage	500V
Description	Copper, Single & Multi Pair, PVC- Insulation, Collective, PVC Sheath
Cable type	NF M 87-202 EG SF

Electrical data a 20°C

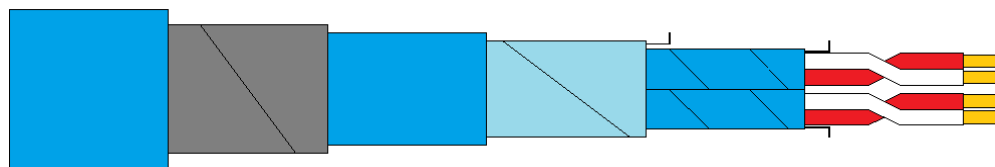
Conductor size	Nom	mm ²	0,5	0,88	1,5
Conductor resistance	Max	Ω/km			
solid / Class 1			37,5	-	-
stranded / Class 2			-	21,4	12,3
and additional 2% of the maximum resistance has been allowed for cable of multipair construction					
Insulation resistance	Min.	MΩxkm			
Individual conductor			500		
Mutual capacitance 1kHz	Max.	nF/km			
All cables			145	160	200
L/R Ratio	Max.	μH/Ω	20	35	60
Test voltage		V			
Ums core: core			1500		
Ums core: screen			1000		

Properties for cable

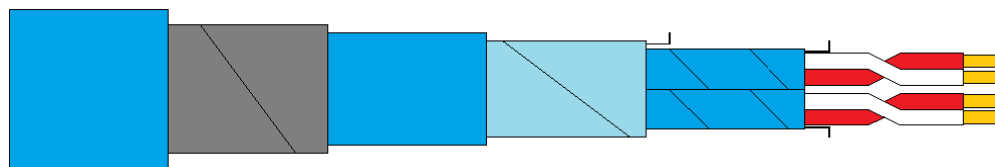
Code Colour	White & Red numbered pair, White & Red & Blue numbered triad, White & Red & Blue & Yellow numbered quad
Fire Resistant	N.A.
Flame Retardant	NF C 32-070 cat C2 & IEC 60332-3-24
Low Smoke Emission	N.A.
Other Properties	Number of strands depending on the diameter under collective screen: 1x(7x0.20mm): < 15mm 2x(7x0.20mm): > 15mm & < 25mm 3x(7x0.20mm): > 25mm
Minimum Bending Radius	10 X O.D.

Properties for outer sheath

Limiting Oxygen Index	LOI>30%
Amount of halogen acid gas	HCl<15%
Oil Resistance	NF M 87-202 Annex A & ANSI/ICEA S-73-532 (4h, 70°C)
Sunlight Resistance	UL 1581 Section 1200
Temperature Installation	-5°C/50°C
Temperature Operating	-30°C/50°C



Nº Pairs	Cores	RT Insulation Nominal	RT Inner sheath	Ø over inner sheath	RT of armour nom.	RT of outer sheath nom.	Overall diameter	Weight approx.	BTC CODE
uds	mm ² /uds	mm	mm	mm	mm	mm	mm	kgr/km	
1	0.5mm ² /1	0,4	-	-	-	1,0	5,50	48	NFM87202-01IP05EGSF
3	0.5mm ² /1	0,4	-	-	-	1,0	8,24	88	NFM87202-03IP05EGSF
7	0.5mm ² /1	0,4	-	-	-	1,0	10,56	150	NFM87202-07IP05EGSF
12	0.5mm ² /1	0,4	-	-	-	1,1	13,40	239	NFM87202-12IP05EGSF
19	0.5mm ² /1	0,4	-	-	-	1,2	16,40	359	NFM87202-19IP05EGSF
27	0.5mm ² /1	0,4	-	-	-	1,3	19,41	497	NFM87202-27IP05EGSF
1 (triple)	0.5mm ² /1	0,4	-	-	-	1,0	5,74	55	NFM87202-01IT05EGSF
1 (quad)	0.5mm ² /1	0,4	-	-	-	1,0	6,16	65	NFM87202-01IQ05EGSF
3 (triple)	0.5mm ² /1	0,4	-	-	-	1,0	8,96	113	NFM87202-03IT05EGSF
7 (triple)	0.5mm ² /1	0,4	-	-	-	1,0	12,00	205	NFM87202-07IT05EGSF
12 (triple)	0.5mm ² /1	0,4	-	-	-	1,1	15,06	330	NFM87202-12IT05EGSF
1	0.88mm ² /7	0,5	-	-	-	1,0	6,70	71	NFM87202-01IP09EGSF
3	0.88mm ² /7	0,5	-	-	-	1,0	10,43	134	NFM87202-03IP09EGSF
7	0.88mm ² /7	0,5	-	-	-	1,1	13,82	249	NFM87202-07IP09EGSF
12	0.88mm ² /7	0,5	-	-	-	1,2	17,65	401	NFM87202-12IP09EGSF
19	0.88mm ² /7	0,5	-	-	-	1,3	21,70	609	NFM87202-19IP09EGSF
27	0.88mm ² /7	0,5	-	-	-	1,4	25,69	842	NFM87202-27IP09EGSF
1 (triple)	0.88mm ² /7	0,5	-	-	-	1,0	7,03	83	NFM87202-01IT09EGSF
1 (quad)	0.88mm ² /7	0,5	-	-	-	1,0	7,60	100	NFM87202-01IQ09EGSF
3 (triple)	0.88mm ² /7	0,5	-	-	-	1,0	11,42	177	NFM87202-03IT09EGSF
7 (triple)	0.88mm ² /7	0,5	-	-	-	1,2	16,00	354	NFM87202-07IT09EGSF
12 (triple)	0.88mm ² /7	0,5	-	-	-	1,3	20,14	573	NFM87202-12IT09EGSF
1	1.5mm ² /7	0,58	-	-	-	1,0	7,70	99	NFM87202-01IP15EGSF
3	1.5mm ² /7	0,58	-	-	-	1,0	12,26	193	NFM87202-03IP15EGSF
7	1.5mm ² /7	0,58	-	-	-	1,2	16,57	383	NFM87202-07IP15EGSF
12	1.5mm ² /7	0,58	-	-	-	1,3	21,23	625	NFM87202-12IP15EGSF
19	1.5mm ² /7	0,58	-	-	-	1,4	26,15	951	NFM87202-19IP15EGSF
27	1.5mm ² /7	0,58	-	-	-	1,5	30,95	1323	NFM87202-27IP15EGSF
1 (triple)	1.5mm ² /7	0,58	-	-	-	1,0	8,11	118	NFM87202-01IT15EGSF
1 (quad)	1.5mm ² /7	0,58	-	-	-	1,0	8,81	143	NFM87202-01IQ15EGSF
3 (triple)	1.5mm ² /7	0,58	-	-	-	1,1	13,67	269	NFM87202-03IT15EGSF
7 (triple)	1.5mm ² /7	0,58	-	-	-	1,2	19,00	540	NFM87202-07IT15EGSF
12 (triple)	1.5mm ² /7	0,58	-	-	-	1,3	24,03	884	NFM87202-12IT15EGSF



NF M 87-202 EI SF

Cable Standard	Instrument Cable NF M 87-202
Voltage	500V
Description	Copper, Single & Multi Pair, PVC- Insulation, Individual Screen, Ind. Jacket, Collective, PVC Sheath
Cable type	NF M 87-202 EI SF

Electrical data a 20°C

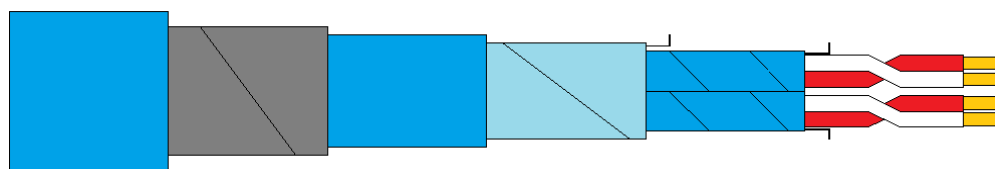
Conductor size	Nom	mm ²	0,5	0,88	1,5
Conductor resistance solid / Class 1 stranded / Class 2 and additional 2% of the maximum resistance has been allowed for cable of multipair construction	Max	Ω/km			
			37,5	-	-
			-	21,4	12,3
Insulation resistance Individual conductor	Min.	MΩxkm	500		
Mutual capacitance 1kHz All cables	Max.	nF/km	145	160	200
L/R Ratio	Max.	μH/Ω	20	35	60
Test voltage Ums core: core Ums core: screen Ums screen: screen		V	1500 1000 750		

Properties for cable

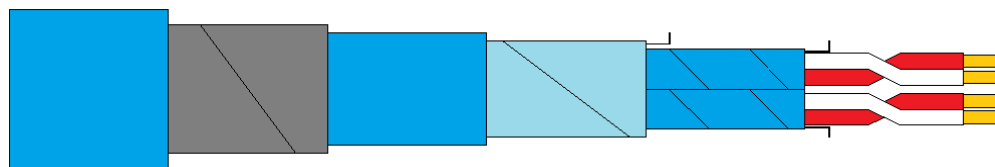
Code Colour	White & Red numbered jacket, White & Red & Blue numbered jacket,
Fire Resistant	N.A.
Flame Retardant	NF C 32-070 cat C2 & IEC 60332-3-24
Low Smoke Emission	N.A.
Other Properties	Number of strands depending on the diameter under collective screen: 1x(7x0.20mm): < 15mm 2x(7x0.20mm): > 15mm &< 25mm 3x(7x0.20mm): > 25mm
Minimum Bending Radius	10 X O.D.

Properties for outer sheath

Limiting Oxygen Index	LOI>30%
Amount of halogen acid gas	HCl<15%
Oil Resistance	NF M 87-202 Annex A & ANSI/ICEA S-73-532 (4h, 70°C)
Sunlight Resistance	UL 1581 Section 1200
Temperature Installation	-5°C/50°C
Temperature Operating	-30°C/50°C



Nº Pairs	Cores	RT Insulation Nominal	RT Inner sheath	Ø over inner sheath	RT of armour nom.	RT of outer sheath nom.	Overall diameter	Weight approx.	BTC CODE
uds	mm ² /uds	mm	mm	mm	mm	mm	mm	kgr/km	
3	0.5mm ² /1	0,4	-	-	-	1,0	11,53	153	NFM87202-03IP05EISF
7	0.5mm ² /1	0,4	-	-	-	1,2	15,55	293	NFM87202-07IP05EISF
12	0.5mm ² /1	0,4	-	-	-	1,3	20,68	479	NFM87202-12IP05EISF
19	0.5mm ² /1	0,4	-	-	-	1,4	25,42	721	NFM87202-19IP05EISF
27	0.5mm ² /1	0,4	-	-	-	1,5	30,11	998	NFM87202-27IP05EISF
3 (triple)	0.5mm ² /1	0,4	-	-	-	1,0	12,02	178	NFM87202-03IT05EISF
7 (triple)	0.5mm ² /1	0,4	-	-	-	1,2	16,22	349	NFM87202-07IT05EISF
12 (triple)	0.5mm ² /1	0,4	-	-	-	1,3	21,61	574	NFM87202-12IT05EISF
3	0.88mm ² /7	0,5	-	-	-	1,1	14,16	218	NFM87202-03IP09EISF
7	0.88mm ² /7	0,5	-	-	-	1,2	18,93	422	NFM87202-07IP09EISF
12	0.88mm ² /7	0,5	-	-	-	1,4	25,57	691	NFM87202-12IP09EISF
19	0.88mm ² /7	0,5	-	-	-	1,5	31,52	1068	NFM87202-19IP09EISF
27	0.88mm ² /7	0,5	-	-	-	1,6	37,35	1449	NFM87202-27IP09EISF
3 (triple)	0.88mm ² /7	0,5	-	-	-	1,1	14,83	262	NFM87202-03IT09EISF
7 (triple)	0.88mm ² /7	0,5	-	-	-	1,3	20,06	529	NFM87202-07IT09EISF
12 (triple)	0.88mm ² /7	0,5	-	-	-	1,4	26,86	856	NFM87202-12IT09EISF
3	1.5mm ² /7	0,58	-	-	-	1,2	16,38	301	NFM87202-03IP15EISF
7	1.5mm ² /7	0,58	-	-	-	1,3	21,95	582	NFM87202-07IP15EISF
12	1.5mm ² /7	0,58	-	-	-	1,5	29,68	975	NFM87202-12IP15EISF
19	1.5mm ² /7	0,58	-	-	-	1,6	36,64	1483	NFM87202-19IP15EISF
27	1.5mm ² /7	0,58	-	-	-	1,7	43,42	2055	NFM87202-27IP15EISF
3 (triple)	1.5mm ² /7	0,58	-	-	-	1,2	17,21	371	NFM87202-03IT15EISF
7 (triple)	1.5mm ² /7	0,58	-	-	-	1,3	23,11	760	NFM87202-07IT15EISF
12 (triple)	1.5mm ² /7	0,58	-	-	-	1,5	31,28	1275	NFM87202-12IT15EISF



NF M 87-202 EG FA

Cable Standard	Instrument Cable NF M 87-202
Voltage	500V
Description	Copper, Single & Multi Pair, PVC- Insulation, Collective, Double Steel Tape, PVC Sheath
Cable type	NF M 87-202 EG FA

Electrical data a 20°C

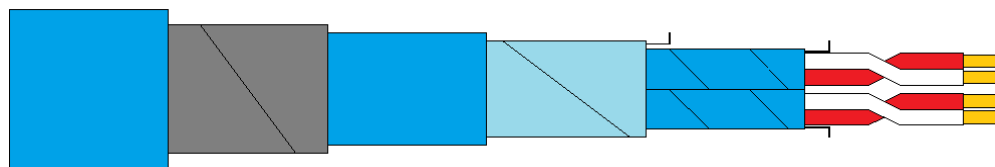
Conductor size	Nom	mm ²	0,5	0,88	1,5
Conductor resistance solid / Class 1 stranded / Class 2 and additional 2% of the maximum resistance has been allowed for cable of multipair construction	Max	Ω/km			
			37,5	-	-
			-	21,4	12,3
Insulation resistance Individual conductor	Min.	MΩxkm	500		
Mutual capacitance 1kHz All cables	Max.	nF/km	145	160	200
L/R Ratio	Max.	μH/Ω	20	35	60
Test voltage Ums core: core Ums core: screen		V	1500 1000		

Properties for cable

Code Colour	White & Red numbered pair, White & Red & Blue numbered triad, White % Red & Blue & Yellow numbered quad
Fire Resistant	N.A.
Flame Retardant	NF C 32-070 cat C2 & IEC 60332-3-24
Low Smoke Emission	N.A.
Other Properties	Number of strands depending on the diameter under collective screen: 1x(7x0.20mm): < 15mm 2x(7x0.20mm): > 15mm & < 25mm 3x(7x0.20mm): > 25mm
Minimum Bending Radius	15 X O.D.

Properties for outer sheath

Limiting Oxygen Index	LOI>30%
Amount of halogen acid gas	HCl<15%
Oil Resistance	NF M 87-202 Annex A & ANSI/ICEA S-73-532 (4h, 70°C)
Sunlight Resistance	UL 1581 Section 1200
Temperature Installation	-5°C/50°C
Temperature Operating	-30°C/50°C



Nº Pairs	Cores	RT Insulation Nominal	RT Inner sheath	Ø over inner sheath	RT of armour nom.	RT of outer sheath nom.	Overall diameter	Weight approx.	BTC CODE
uds	mm ² /uds	mm	mm	mm	mm	mm	mm	kgr/km	

1	0.5mm ² /1	0,4	1,0	5,50	0,2	1,0	8,30	143	NFM87202-01IP05EGFA
3	0.5mm ² /1	0,4	1,0	8,24	0,2	1,0	11,04	229	NFM87202-03IP05EGFA
7	0.5mm ² /1	0,4	1,0	10,56	0,2	1,1	13,56	341	NFM87202-07IP05EGFA
12	0.5mm ² /1	0,4	1,1	13,40	0,2	1,2	16,60	489	NFM87202-12IP05EGFA
19	0.5mm ² /1	0,4	1,2	16,40	0,2	1,3	19,80	674	NFM87202-19IP05EGFA
27	0.5mm ² /1	0,4	1,3	19,41	0,2	1,3	22,81	874	NFM87202-27IP05EGFA

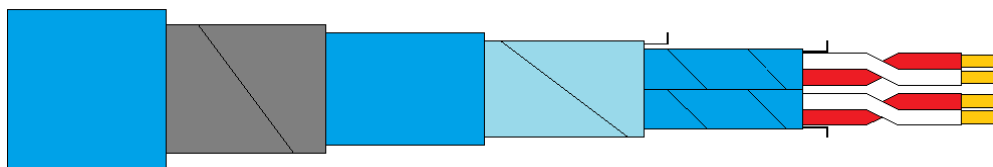
1 (triple)	0.5mm ² /1	0,4	1,0	5,74	0,2	1,0	8,54	153	NFM87202-01IT05EGFA
1 (quad)	0.5mm ² /1	0,4	1,0	6,16	0,2	1,0	8,96	170	NFM87202-01IQ05EGFA
3 (triple)	0.5mm ² /1	0,4	1,0	8,96	0,2	1,0	11,76	265	NFM87202-03IT05EGFA
7 (triple)	0.5mm ² /1	0,4	1,0	12,00	0,2	1,1	15,00	421	NFM87202-07IT05EGFA
12 (triple)	0.5mm ² /1	0,4	1,1	15,06	0,2	1,2	18,26	609	NFM87202-12IT05EGFA

1	0.88mm ² /7	0,5	1,0	6,70	0,2	1,0	9,50	185	NFM87202-01IP09EGFA
3	0.88mm ² /7	0,5	1,0	10,43	0,2	1,1	13,43	316	NFM87202-03IP09EGFA
7	0.88mm ² /7	0,5	1,1	13,82	0,2	1,2	17,02	506	NFM87202-07IP09EGFA
12	0.88mm ² /7	0,5	1,2	17,65	0,2	1,3	21,05	748	NFM87202-12IP09EGFA
19	0.88mm ² /7	0,5	1,3	21,70	0,2	1,4	25,30	1037	NFM87202-19IP09EGFA
27	0.88mm ² /7	0,5	1,4	25,69	0,2	1,5	29,49	1364	NFM87202-27IP09EGFA

1 (triple)	0.88mm ² /7	0,5	1,0	7,03	0,2	1,0	9,83	202	NFM87202-01IT09EGFA
1 (quad)	0.88mm ² /7	0,5	1,0	7,60	0,2	1,0	10,40	227	NFM87202-01IQ09EGFA
3 (triple)	0.88mm ² /7	0,5	1,0	11,42	0,2	1,1	14,42	375	NFM87202-03IT09EGFA
7 (triple)	0.88mm ² /7	0,5	1,2	16,00	0,2	1,2	19,20	651	NFM87202-07IT09EGFA
12 (triple)	0.88mm ² /7	0,5	1,3	20,14	0,2	1,3	23,54	959	NFM87202-12IT09EGFA

1	1.5mm ² /7	0,58	1,0	7,70	0,2	1,0	10,50	228	NFM87202-01IP15EGFA
3	1.5mm ² /7	0,58	1,0	12,26	0,2	1,2	15,46	413	NFM87202-03IP15EGFA
7	1.5mm ² /7	0,58	1,2	16,57	0,2	1,3	19,97	701	NFM87202-07IP15EGFA
12	1.5mm ² /7	0,58	1,3	21,23	0,2	1,4	24,83	1044	NFM87202-12IP15EGFA
19	1.5mm ² /7	0,58	1,4	26,15	0,2	1,5	29,95	1482	NFM87202-19IP15EGFA
27	1.5mm ² /7	0,58	1,5	30,95	0,2	1,6	34,95	1970	NFM87202-27IP15EGFA

1 (triple)	1.5mm ² /7	0,58	1,0	8,11	0,2	1,0	10,91	253	NFM87202-01IT15EGFA
1 (quad)	1.5mm ² /7	0,58	1,0	8,81	0,2	1,0	11,61	289	NFM87202-01IQ15EGFA
3 (triple)	1.5mm ² /7	0,58	1,1	13,67	0,2	1,2	16,87	513	NFM87202-03IT15EGFA
7 (triple)	1.5mm ² /7	0,58	1,3	19,20	0,2	1,3	22,60	919	NFM87202-07IT15EGFA
12 (triple)	1.5mm ² /7	0,58	1,4	24,23	0,2	1,4	27,83	1375	NFM87202-12IT15EGFA



NF M 87-202 EI FA

Cable	Instrument Cable
Standard	NF M 87-202
Voltage	500V
Description	Copper, Single & Multi Pair, PVC- Insulation, Ind. Screen, Ind. Jacket, Collective, Double Steel Armour, PVC Sheath
Cable type	NF M 87-202 EI FA

Electrical data a 20°C

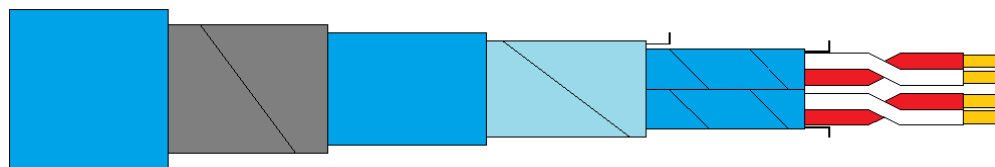
Conductor size	Nom	mm ²	0,5	0,88	1,5
Conductor resistance solid / Class 1 stranded / Class 2 and additional 2% of the maximum resistance has been allowed for cable of multipair construction	Max	Ω/km			
			37,5	-	-
			-	21,4	12,3
Insulation resistance Individual conductor	Min.	MΩxkm	500		
Mutual capacitance 1kHz All cables	Max.	nF/km	145	160	200
L/R Ratio	Max.	μH/Ω	20	35	60
Test voltage Ums core: core Ums core: screen Ums screen: screen		V	1500 1000 750		

Properties for cable

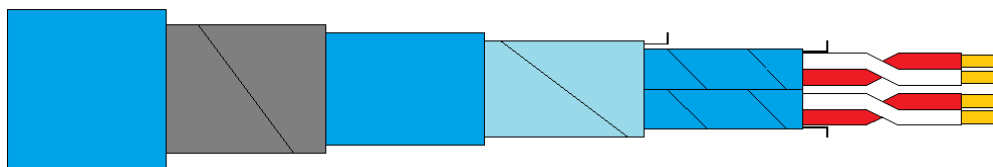
Code Colour	White & Red numbered jacket, White & Red & Blue numbered jacket,
Fire Resistant	N.A.
Flame Retardant	NF C 32-070 cat C2 & IEC 60332-3-24
Low Smoke Emission	N.A.
Other Properties	Number of strands depending on the diameter under collective screen: 1x(7x0.20mm): < 15mm 2x(7x0.20mm): > 15mm &< 25mm 3x(7x0.20mm): > 25mm
Minimum Bending Radius	15 X O.D.

Properties for outer sheath

Limiting Oxygen Index	LOI>30%
Amount of halogen acid gas	HCl<15%
Oil Resistance	NF M 87-202 Annex A & ANSI/ICEA S-73-532 (4h, 70°C)
Sunlight Resistance	UL 1581 Section 1200
Temperature Installation	-5°C/50°C
Temperature Operating	-30°C/50°C



Nº Pairs	Cores	RT Insulation Nominal	RT Inner sheath	Ø over inner sheath	RT of armour nom.	RT of outer sheath nom.	Overall diameter	Weight approx.	BTC CODE
uds	mm ² /uds	mm	mm	mm	mm	mm	mm	kgr/km	
3	0.5mm ² /1	0,4	1,0	11,53	0,2	1,1	14,53	353	NFM87202-03IP05EIFA
7	0.5mm ² /1	0,4	1,2	15,55	0,2	1,2	18,75	583	NFM87202-07IP05EIFA
12	0.5mm ² /1	0,4	1,3	20,68	0,2	1,3	24,08	875	NFM87202-12IP05EIFA
19	0.5mm ² /1	0,4	1,4	25,42	0,2	1,5	29,22	1238	NFM87202-19IP05EIFA
27	0.5mm ² /1	0,4	1,5	30,11	0,2	1,6	34,11	1628	NFM87202-27IP05EIFA
3 (triple)	0.5mm ² /1	0,4	1,0	12,02	0,2	1,1	15,02	386	NFM87202-03IT05EIFA
7 (triple)	0.5mm ² /1	0,4	1,2	16,22	0,2	1,3	19,62	661	NFM87202-07IT05EIFA
12 (triple)	0.5mm ² /1	0,4	1,3	21,61	0,2	1,4	25,21	1000	NFM87202-12IT05EIFA
3	0.88mm ² /7	0,5	1,1	14,16	0,2	1,2	17,36	471	NFM87202-03IP09EIFA
7	0.88mm ² /7	0,5	1,2	18,93	0,2	1,3	22,33	784	NFM87202-07IP09EIFA
12	0.88mm ² /7	0,5	1,4	25,57	0,2	1,5	29,37	1211	NFM87202-12IP09EIFA
19	0.88mm ² /7	0,5	1,5	31,52	0,2	1,6	35,52	1727	NFM87202-19IP09EIFA
27	0.88mm ² /7	0,5	1,6	37,35	0,2	1,7	41,55	2252	NFM87202-27IP09EIFA
3 (triple)	0.88mm ² /7	0,5	1,1	14,83	0,2	1,2	18,03	526	NFM87202-03IT09EIFA
7 (triple)	0.88mm ² /7	0,5	1,3	20,06	0,2	1,3	23,46	914	NFM87202-07IT09EIFA
12 (triple)	0.88mm ² /7	0,5	1,4	26,86	0,2	1,5	30,66	1401	NFM87202-12IT09EIFA
3	1.5mm ² /7	0,58	1,2	16,38	0,2	1,3	19,78	602	NFM87202-03IP15EIFA
7	1.5mm ² /7	0,58	1,3	21,95	0,2	1,4	25,55	1015	NFM87202-07IP15EIFA
12	1.5mm ² /7	0,58	1,5	29,68	0,2	1,5	33,48	1579	NFM87202-12IP15EIFA
19	1.5mm ² /7	0,58	1,6	36,64	0,2	1,7	40,84	2271	NFM87202-19IP15EIFA
27	1.5mm ² /7	0,58	1,7	43,42	0,2	1,8	47,82	3015	NFM87202-27IP15EIFA
3 (triple)	1.5mm ² /7	0,58	1,2	17,21	0,2	1,3	20,61	687	NFM87202-03IT15EIFA
7 (triple)	1.5mm ² /7	0,58	1,3	23,11	0,2	1,4	26,71	1192	NFM87202-07IT15EIFA
12 (triple)	1.5mm ² /7	0,58	1,5	31,28	0,2	1,6	35,28	1873	NFM87202-12IT15EIFA



NF M 87-202 EG SF FR

Cable Standard	Instrument Cable NF M 87-202
Voltage	500V
Description	Copper, Single & Multi Pair, Mica, XLPE- Insulation, Collective, LSZH Sheath
Cable type	NF M 87-202 EG SF

Electrical data a 20°C

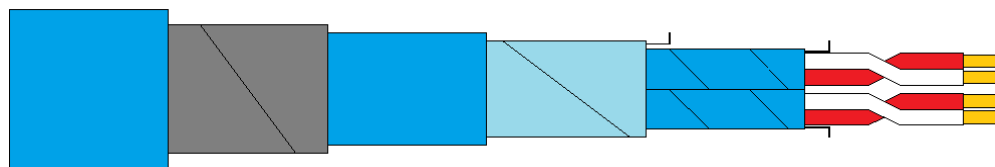
Conductor size	Nom	mm ²	0,5	0,88	1,5
Conductor resistance solid / Class 1 stranded / Class 2 and additional 2% of the maximum resistance has been allowed for cable of multipair construction	Max	Ω/km			
			37,5	-	-
			-	21,4	12,3
Insulation resistance Individual conductor	Min.	MΩxkm	1000		
Mutual capacitance 1kHz All cables	Max.	nF/km	145	160	200
L/R Ratio	Max.	μH/Ω	20	35	60
Test voltage Ums core: core Ums core: screen		V	1500 1000		

Properties for cable

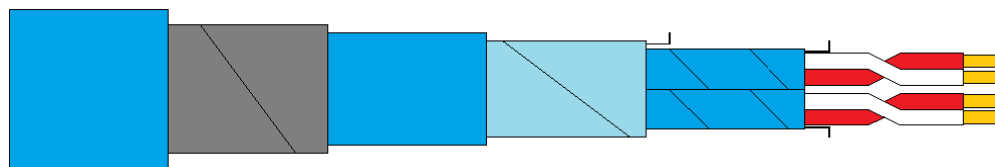
Code Colour	White & Red numbered pair, White & Red & Blue numbered triad, White & Red & Blue & Yellow numbered quad
Fire Resistant	IEC 60331
Flame Retardant	NF C 32-070 cat C2 & IEC 60332-3-22
Low Smoke Emission	IEC 61034-1-2 > 60%
Other Properties	Number of strands depending on the diameter under collective screen: 1x(7x0.20mm): < 15mm 2x(7x0.20mm): > 15mm & < 25mm 3x(7x0.20mm): > 25mm
Minimum Bending Radius	10 X O.D.

Properties for outer sheath

Limiting Oxygen Index	LOI > 30%
Amount of halogen acid gas	IEC 60754-1 HCl < 0.1%
Oil Resistance	NF M 87-202 Annex A & ANSI/ICEA S-73-532 (4h, 70°C)
Sunlight Resistance	UL 1581 Section 1200
Temperature Installation	-15°C/50°C
Temperature Operating	-40°C/50°C



Nº Pairs	Cores	RT Insulation Nominal	RT Inner sheath	Ø over inner sheath	RT of armour nom.	RT of outer sheath nom.	Overall diameter	Weight approx.	BTC CODE
uds	mm ² /uds	mm	mm	mm	mm	mm	mm	kgr/km	
1	0.5mm ² /1	0,6	-	-	-	1,0	7,30	76	NFM87FI-01IP05EGSF
3	0.5mm ² /1	0,6	-	-	-	1,0	11,53	135	NFM87FI-03IP05EGSF
7	0.5mm ² /1	0,6	-	-	-	1,2	15,55	255	NFM87FI-07IP05EGSF
12	0.5mm ² /1	0,6	-	-	-	1,3	19,88	399	NFM87FI-12IP05EGSF
19	0.5mm ² /1	0,6	-	-	-	1,3	24,25	548	NFM87FI-19IP05EGSF
27	0.5mm ² /1	0,6	-	-	-	1,4	28,73	805	NFM87FI-27IP05EGSF
1 (triple)	0.5mm ² /1	0,6	-	-	-	1,0	7,68	86	NFM87FI-01IT05EGSF
1 (quad)	0.5mm ² /1	0,6	-	-	-	1,0	8,33	102	NFM87FI-01IQ05EGSF
3 (triple)	0.5mm ² /1	0,6	-	-	-	1,0	12,65	175	NFM87FI-03IT05EGSF
7 (triple)	0.5mm ² /1	0,6	-	-	-	1,2	17,80	342	NFM87FI-07IT05EGSF
12 (triple)	0.5mm ² /1	0,6	-	-	-	1,3	22,47	583	NFM87FI-12IT05EGSF
1	0.88mm ² /7	0,6	-	-	-	1,0	8,10	97	NFM87FI-01IP09EGSF
3	0.88mm ² /7	0,6	-	-	-	1,0	12,99	177	NFM87FI-03IP09EGSF
7	0.88mm ² /7	0,6	-	-	-	1,2	17,59	340	NFM87FI-07IP09EGSF
12	0.88mm ² /7	0,6	-	-	-	1,3	22,58	549	NFM87FI-12IP09EGSF
19	0.88mm ² /7	0,6	-	-	-	1,4	27,85	780	NFM87FI-19IP09EGSF
27	0.88mm ² /7	0,6	-	-	-	1,5	32,98	1183	NFM87FI-27IP09EGSF
1 (triple)	0.88mm ² /7	0,6	-	-	-	1,0	8,54	112	NFM87FI-01IT09EGSF
1 (quad)	0.88mm ² /7	0,6	-	-	-	1,0	9,29	134	NFM87FI-01IQ09EGSF
3 (triple)	0.88mm ² /7	0,6	-	-	-	1,1	14,49	243	NFM87FI-03IT09EGSF
7 (triple)	0.88mm ² /7	0,6	-	-	-	1,3	20,40	484	NFM87FI-07IT09EGSF
12 (triple)	0.88mm ² /7	0,6	-	-	-	1,4	25,79	829	NFM87FI-12IT09EGSF
1	1.5mm ² /7	0,6	-	-	-	1,0	8,90	122	NFM87FI-01IP15EGSF
3	1.5mm ² /7	0,6	-	-	-	1,1	14,65	237	NFM87FI-03IP15EGSF
7	1.5mm ² /7	0,6	-	-	-	1,3	19,83	465	NFM87FI-07IP15EGSF
12	1.5mm ² /7	0,6	-	-	-	1,4	25,48	751	NFM87FI-12IP15EGSF
19	1.5mm ² /7	0,6	-	-	-	1,5	31,45	1074	NFM87FI-19IP15EGSF
27	1.5mm ² /7	0,6	-	-	-	1,6	37,23	1579	NFM87FI-27IP15EGSF
1 (triple)	1.5mm ² /7	0,6	-	-	-	1,0	9,40	143	NFM87FI-01IT15EGSF
1 (quad)	1.5mm ² /7	0,6	-	-	-	1,0	10,25	174	NFM87FI-01IQ15EGSF
3 (triple)	1.5mm ² /7	0,6	-	-	-	1,2	16,33	328	NFM87FI-03IT15EGSF
7 (triple)	1.5mm ² /7	0,6	-	-	-	1,3	22,80	650	NFM87FI-07IT15EGSF
12 (triple)	1.5mm ² /7	0,6	-	-	-	1,5	29,11	1141	NFM87FI-12IT15EGSF



NF M 87-202 EI SF FR

Cable Standard	Instrument Cable NF M 87-202
Voltage	500V
Description	Copper, Single & Multi Pair, Mica, XLPE- Insulation, Individual Screen, LSZH Jacket , Collective, LSZH Sheath
Cable type	NF M 87-202 EI SF

Electrical data a 20°C

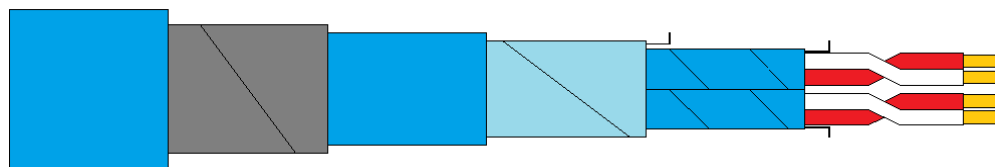
Conductor size	Nom	mm ²	0,5	0,88	1,5
Conductor resistance solid / Class 1 stranded / Class 2 and additional 2% of the maximum resistance has been allowed for cable of multipair construction	Max	Ω/km			
			37,5	-	-
			-	21,4	12,3
Insulation resistance Individual conductor	Min.	MΩxkm	1000		
Mutual capacitance 1kHz All cables	Max.	nF/km	145	160	200
L/R Ratio	Max.	μH/Ω	20	35	60
Test voltage Ums core: core Ums core: screen Ums screen: screen		V	1500 1000 750		

Properties for cable

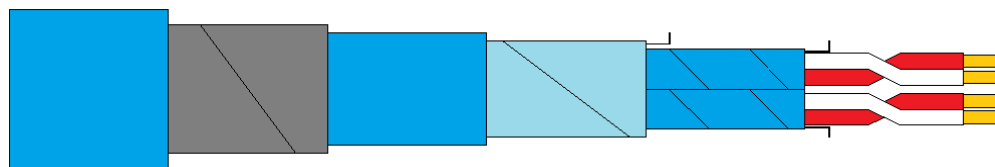
Code Colour	White & Red numbered jacket, White & Red & Blue numbered jacket,
Fire Resistant	IEC 60331
Flame Retardant	NF C 32-070 cat C2 & IEC 60332-3-22
Low Smoke Emission	IEC 61034-1-2 > 60%
Other Properties	Number of strands depending on the diameter under collective screen: 1x(7x0.20mm): < 15mm 2x(7x0.20mm): > 15mm & < 25mm 3x(7x0.20mm): > 25mm
Minimum Bending Radius	10 X O.D.

Properties for outer sheath

Limiting Oxygen Index	LOI > 30%
Amount of halogen acid gas	IEC 60754-1 HCl < 0.1%
Oil Resistance	NF M 87-202 Annex A & ANSI/ICEA S-73-532 (4h, 70°C)
Sunlight Resistance	UL 1581 Section 1200
Temperature Installation	-15°C/50°C
Temperature Operating	-40°C/50°C



Nº Pairs	Cores	RT Insulation Nominal	RT Inner sheath	Ø over inner sheath	RT of armour nom.	RT of outer sheath nom.	Overall diameter	Weight approx.	BTC CODE
uds	mm ² /uds	mm	mm	mm	mm	mm	mm	kgr/km	
3	0.5mm ² /1	0,6	-	-	-	1,2	15,57	238	NFM87FI-03IP05EISF
7	0.5mm ² /1	0,6	-	-	-	1,3	20,82	440	NFM87FI-07IP05EISF
12	0.5mm ² /1	0,6	-	-	-	1,4	27,91	715	NFM87FI-12IP05EISF
19	0.5mm ² /1	0,6	-	-	-	1,6	34,67	1097	NFM87FI-19IP05EISF
27	0.5mm ² /1	0,6	-	-	-	1,7	41,07	1510	NFM87FI-27IP05EISF
3 (triple)	0.5mm ² /1	0,6	-	-	-	1,2	16,34	280	NFM87FI-03IT05EISF
7 (triple)	0.5mm ² /1	0,6	-	-	-	1,3	21,89	532	NFM87FI-07IT05EISF
12 (triple)	0.5mm ² /1	0,6	-	-	-	1,5	29,60	889	NFM87FI-12IT05EISF
3	0.88mm ² /7	0,6	-	-	-	1,2	17,19	290	NFM87FI-03IP09EISF
7	0.88mm ² /7	0,6	-	-	-	1,3	23,08	549	NFM87FI-07IP09EISF
12	0.88mm ² /7	0,6	-	-	-	1,5	31,24	920	NFM87FI-12IP09EISF
19	0.88mm ² /7	0,6	-	-	-	1,6	38,60	1382	NFM87FI-19IP09EISF
27	0.88mm ² /7	0,6	-	-	-	1,8	45,96	1934	NFM87FI-27IP09EISF
3 (triple)	0.88mm ² /7	0,6	-	-	-	1,2	18,08	354	NFM87FI-03IT09EISF
7 (triple)	0.88mm ² /7	0,6	-	-	-	1,3	24,32	686	NFM87FI-07IT09EISF
12 (triple)	0.88mm ² /7	0,6	-	-	-	1,5	32,96	1150	NFM87FI-12IT09EISF
3	1.5mm ² /7	0,6	-	-	-	1,2	18,81	356	NFM87FI-03IP15EISF
7	1.5mm ² /7	0,6	-	-	-	1,4	25,53	698	NFM87FI-07IP15EISF
12	1.5mm ² /7	0,6	-	-	-	1,6	34,57	1164	NFM87FI-12IP15EISF
19	1.5mm ² /7	0,6	-	-	-	1,7	42,74	1725	NFM87FI-19IP15EISF
27	1.5mm ² /7	0,6	-	-	-	1,8	50,66	2440	NFM87FI-27IP15EISF
3 (triple)	1.5mm ² /7	0,6	-	-	-	1,3	20,01	430	NFM87FI-03IT15EISF
7 (triple)	1.5mm ² /7	0,6	-	-	-	1,4	26,93	881	NFM87FI-07IT15EISF
12 (triple)	1.5mm ² /7	0,6	-	-	-	1,6	36,51	1445	NFM87FI-12IT15EISF



NF M 87-202 EG FA FR PVC

Cable Standard	Instrument Cable NF M 87-202
Voltage	500V
Description	Copper, Single & Multi Pair, Mica, XLPE- Insulation, Collective, LSZHInner Sheath, Double Steel Tape, PVC Sheath
Cable type	NF M 87-202 EG FA

Electrical data a 20°C

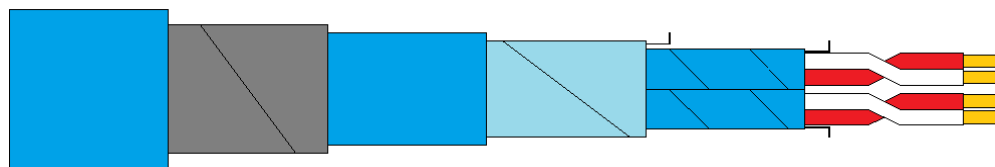
Conductor size	Nom	mm ²	0,5	0,88	1,5
Conductor resistance	Max	Ω/km			
solid / Class 1			37,5	-	-
stranded / Class 2			-	21,4	12,3
and additional 2% of the maximum resistance has been allowed for cable of multipair construction					
Insulation resistance	Min.	MΩxkm			
Individual conductor			1000		
Mutual capacitance 1kHz	Max.	nF/km			
All cables			145	160	200
L/R Ratio	Max.	μH/Ω	20	35	60
Test voltage		V			
Ums core: core			1500		
Ums core: screen			1000		

Propertiesfor cable

Code Colour	White & Red numbered pair, White & Red & Blue numbered triad, White & Red & Blue & Yellow numbered quad
Fire Resistant	IEC 60331
Flame Retardant	NF C 32-070 cat C2 &IEC 60332-3-24
Low Smoke Emission	N.A.
Other Properties	Number of strands depending on the diameter under collective screen: 1x(7x0.20mm): < 15mm 2x(7x0.20mm): > 15mm &< 25mm 3x(7x0.20mm): > 25mm
Minimum Bending Radius	15 X O.D.

Properties for outer sheath

Limiting Oxygen Index	LOI>30%
Amount of halogen acid gas	HCl<15%
Oil Resistance	NF M 87-202 Annex A &ANSI/ICEA S-73-532 (4h, 70°C)
Sunlight Resistance	UL 1581 Section 1200
Temperature Installation	-5°C/50°C
Temperature Operating	-30°C/50°C



Nº Pairs	Cores	RT Insulation Nominal	RT Inner sheath	Ø over inner sheath	RT of armour nom.	RT of outer sheath nom.	Overall diameter	Weight approx.	BTC CODE
uds	mm ² /uds	mm	mm	mm	mm	mm	mm	kgr/km	

1	0.5mm ² /1	0,6	1,0	7,30	0,2	1,0	10,10	161	NFM87FC-01IP05EGFA
3	0.5mm ² /1	0,6	1,0	11,53	0,2	1,1	14,53	276	NFM87FC-03IP05EGFA
7	0.5mm ² /1	0,6	1,2	15,55	0,2	1,2	18,75	461	NFM87FC-07IP05EGFA
12	0.5mm ² /1	0,6	1,3	19,88	0,2	1,3	23,28	679	NFM87FC-12IP05EGFA
19	0.5mm ² /1	0,6	1,3	24,25	0,2	1,4	27,85	936	NFM87FC-19IP05EGFA
27	0.5mm ² /1	0,6	1,4	28,73	0,2	1,5	32,53	1241	NFM87FC-27IP05EGFA

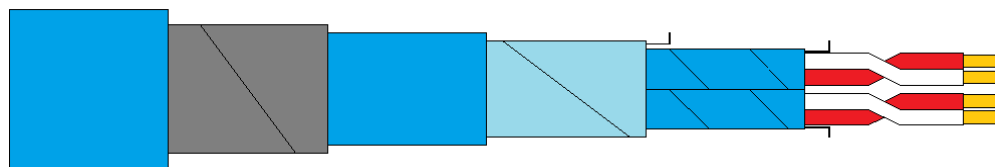
1 (triple)	0.5mm ² /1	0,6	1,0	7,68	0,2	1,0	10,48	175	NFM87FC-01IT05EGFA
1 (quad)	0.5mm ² /1	0,6	1,0	8,33	0,2	1,0	11,13	197	NFM87FC-01IQ05EGFA
3 (triple)	0.5mm ² /1	0,6	1,0	12,65	0,2	1,2	15,85	337	NFM87FC-03IT05EGFA
7 (triple)	0.5mm ² /1	0,6	1,2	17,80	0,2	1,3	21,20	592	NFM87FC-07IT05EGFA
12 (triple)	0.5mm ² /1	0,6	1,3	22,48	0,2	1,4	26,08	877	NFM87FC-12IT05EGFA

1	0.88mm ² /7	0,6	1,0	8,10	0,2	1,0	10,90	190	NFM87FC-01IP09EGFA
3	0.88mm ² /7	0,6	1,0	12,99	0,2	1,2	16,19	343	NFM87FC-03IP09EGFA
7	0.88mm ² /7	0,6	1,2	17,59	0,2	1,3	20,99	588	NFM87FC-07IP09EGFA
12	0.88mm ² /7	0,6	1,3	22,58	0,2	1,4	26,18	879	NFM87FC-12IP09EGFA
19	0.88mm ² /7	0,6	1,4	27,85	0,2	1,5	31,65	1252	NFM87FC-19IP09EGFA
27	0.88mm ² /7	0,6	1,5	32,98	0,2	1,6	36,98	1668	NFM87FC-27IP09EGFA

1 (triple)	0.88mm ² /7	0,6	1,0	8,54	0,2	1,0	11,34	209	NFM87FC-01IT09EGFA
1 (quad)	0.88mm ² /7	0,6	1,0	9,29	0,2	1,0	12,09	240	NFM87FC-01IQ09EGFA
3 (triple)	0.88mm ² /7	0,6	1,1	14,49	0,2	1,2	17,69	427	NFM87FC-03IT09EGFA
7 (triple)	0.88mm ² /7	0,6	1,3	20,40	0,2	1,3	23,80	772	NFM87FC-07IT09EGFA
12 (triple)	0.88mm ² /7	0,6	1,4	25,79	0,2	1,5	29,59	1173	NFM87FC-12IT09EGFA

1	1.5mm ² /7	0,6	1,0	8,90	0,2	1,0	11,70	223	NFM87FC-01IP15EGFA
3	1.5mm ² /7	0,6	1,1	14,65	0,2	1,2	17,85	423	NFM87FC-03IP15EGFA
7	1.5mm ² /7	0,6	1,3	19,83	0,2	1,3	23,23	744	NFM87FC-07IP15EGFA
12	1.5mm ² /7	0,6	1,4	25,48	0,2	1,5	29,28	1140	NFM87FC-12IP15EGFA
19	1.5mm ² /7	0,6	1,5	31,45	0,2	1,6	35,45	1600	NFM87FC-19IP15EGFA
27	1.5mm ² /7	0,6	1,6	37,23	0,2	1,7	41,43	2192	NFM87FC-27IP15EGFA

1 (triple)	1.5mm ² /7	0,6	1,0	9,40	0,2	1,0	12,20	249	NFM87FC-01IT15EGFA
1 (quad)	1.5mm ² /7	0,6	1,0	10,25	0,2	1,1	13,25	296	NFM87FC-01IQ15EGFA
3 (triple)	1.5mm ² /7	0,6	1,2	16,33	0,2	1,3	19,73	544	NFM87FC-03IT15EGFA
7 (triple)	1.5mm ² /7	0,6	1,3	22,80	0,2	1,4	26,40	983	NFM87FC-07IT15EGFA
12 (triple)	1.5mm ² /7	0,6	1,5	29,11	0,2	1,5	32,91	1520	NFM87FC-12IT15EGFA



NF M 87-202 EI FA FR PVC

Cable	Instrument Cable
Standard	NF M 87-202
Voltage	500V
Description	Copper, Single & Multi Pair, Mica, XLPE- Insulation, Individual Screen, LSZH Jacket, Collective, LSZH Inner Sheath, Double Steel Tape, PVC Sheath
Cable type	NF M 87-202 EG FA

Electrical data a 20°C

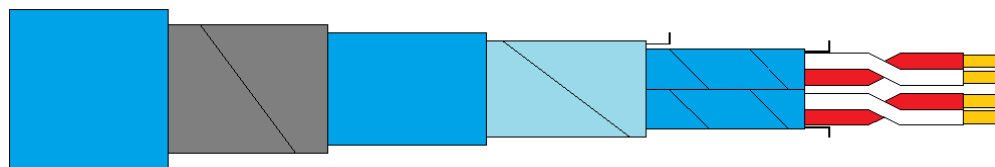
Conductor size	Nom	mm ²	0,5	0,88	1,5
Conductor resistance	Max	Ω/km			
solid / Class 1			37,5	-	-
stranded / Class 2			-	21,4	12,3
and additional 2% of the maximum resistance has been allowed for cable of multipair construction					
Insulation resistance	Min.	MΩxkm			
Individual conductor			1000		
Mutual capacitance 1kHz	Max.	nF/km			
All cables			145	160	200
L/R Ratio	Max.	μH/Ω	20	35	60
Test voltage		V			
Ums core: core			1500		
Ums core: screen			1000		
Ums screem: screen			750		

Propertiesfor cable

Code Colour	White & Red numbered jacket, White & Red & Blue numbered jacket,
Fire Resistant	IEC 60331
Flame Retardant	NF C 32-070 cat C2 &IEC 60332-3-24
Low Smoke Emission	N.A.
Other Properties	Number of strands depending on the diameter under collective screen: 1x(7x0.20mm): < 15mm 2x(7x0.20mm): > 15mm &< 25mm 3x(7x0.20mm): > 25mm
Minimum Bending Radius	15 X O.D.

Properties for outer sheath

Limiting Oxygen Index	LOI>30%
Amount of halogen acid gas	HCl<15%
Oil Resistance	NF M 87-202 Annex A &ANSI/ICEA S-73-532 (4h, 70°C)
Sunlight Resistance	UL 1581 Section 1200
Temperature Installation	-5°C/50°C
Temperature Operating	-30°C/50°C



Nº Pairs	Cores	RT Insulation Nominal	RT Inner sheath	Ø over inner sheath	RT of armour nom.	RT of outer sheath nom.	Overall diameter	Weight approx.	BTC CODE
uds	mm ² /uds	mm	mm	mm	mm	mm	mm	kgr/km	

3	0.5mm ² /1	0,6	1,2	15,57	0,2	1,2	18,77	436	NFM87FC-03IP05EIFA
7	0.5mm ² /1	0,6	1,3	20,82	0,2	1,3	24,22	733	NFM87FC-07IP05EIFA
12	0.5mm ² /1	0,6	1,4	27,91	0,2	1,5	31,71	1139	NFM87FC-12IP05EIFA
19	0.5mm ² /1	0,6	1,6	34,67	0,2	1,6	38,67	1648	NFM87FC-19IP05EIFA
27	0.5mm ² /1	0,6	1,7	41,07	0,2	1,8	45,47	2211	NFM87FC-27IP05EIFA

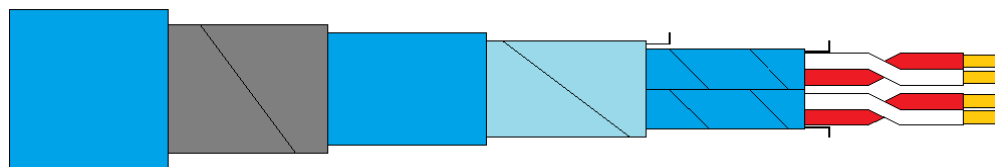
3 (triple)	0.5mm ² /1	0,6	1,2	16,34	0,2	1,3	19,74	497	NFM87FC-03IT05EIFA
7 (triple)	0.5mm ² /1	0,6	1,3	21,89	0,2	1,4	25,49	853	NFM87FC-07IT05EIFA
12 (triple)	0.5mm ² /1	0,6	1,5	29,60	0,2	1,5	33,40	1342	NFM87FC-12IT05EIFA

3	0.88mm ² /7	0,6	1,2	17,19	0,2	1,3	20,59	517	NFM87FC-03IP09EIFA
7	0.88mm ² /7	0,6	1,3	23,08	0,2	1,4	26,68	886	NFM87FC-07IP09EIFA
12	0.88mm ² /7	0,6	1,5	31,24	0,2	1,6	35,24	1411	NFM87FC-12IP09EIFA
19	0.88mm ² /7	0,6	1,6	38,60	0,2	1,7	42,80	2016	NFM87FC-19IP09EIFA
27	0.88mm ² /7	0,6	1,8	45,96	0,2	1,8	50,36	2722	NFM87FC-27IP09EIFA

3 (triple)	0.88mm ² /7	0,6	1,2	18,08	0,2	1,3	21,48	592	NFM87FC-03IT09EIFA
7 (triple)	0.88mm ² /7	0,6	1,3	24,32	0,2	1,4	27,92	1041	NFM87FC-07IT09EIFA
12 (triple)	0.88mm ² /7	0,6	1,5	32,96	0,2	1,6	36,96	1671	NFM87FC-12IT09EIFA

3	1.5mm ² /7	0,6	1,2	18,81	0,2	1,3	22,21	603	NFM87FC-03IP15EIFA
7	1.5mm ² /7	0,6	1,4	25,53	0,2	1,5	29,33	1064	NFM87FC-07IP15EIFA
12	1.5mm ² /7	0,6	1,6	34,57	0,2	1,6	38,57	1714	NFM87FC-12IP15EIFA
19	1.5mm ² /7	0,6	1,7	42,74	0,2	1,8	47,14	2493	NFM87FC-19IP15EIFA
27	1.5mm ² /7	0,6	1,8	50,66	0,2	1,9	55,26	3336	NFM87FC-27IP15EIFA

3 (triple)	1.5mm ² /7	0,6	1,3	20,01	0,2	1,3	23,41	713	NFM87FC-03IT15EIFA
7 (triple)	1.5mm ² /7	0,6	1,4	26,93	0,2	1,5	30,73	1291	NFM87FC-07IT15EIFA
12 (triple)	1.5mm ² /7	0,6	1,6	36,51	0,2	1,7	40,71	2078	NFM87FC-12IT15EIFA



NF M 87-202 EG FA FR LSZH

Cable	Instrument Cable
Standard	NF M 87-202
Voltage	500V
Description	Copper, Single & Multi Pair, Mica, XLPE- Insulation, Collective, LSZH Inner Sheath, Double Steel Tape, LSZH Sheath
Cable type	NF M 87-202 EG FA

Electrical data a 20°C

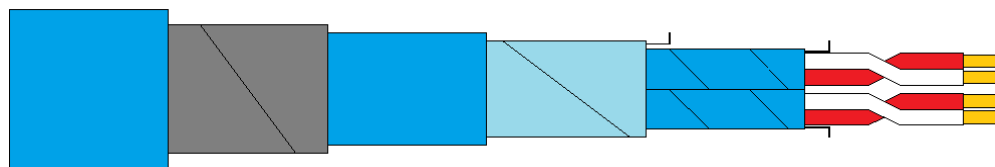
Conductor size	Nom	mm ²	0,5	0,88	1,5
Conductor resistance	Max	Ω/km			
solid / Class 1			37,5	-	-
stranded / Class 2			-	21,4	12,3
and additional 2% of the maximum resistance has been allowed for cable of multipair construction					
Insulation resistance	Min.	MΩxkm			
Individual conductor			1000		
Mutual capacitance 1kHz	Max.	nF/km			
All cables			145	160	200
L/R Ratio	Max.	μH/Ω	20	35	60
Test voltage		V			
Ums core: core			1500		
Ums core: screen			1000		

Properties for cable

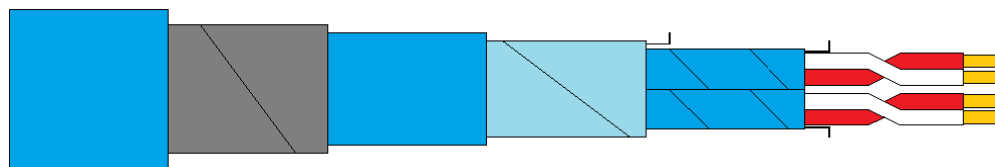
Code Colour	White & Red numbered pair, White & Red & Blue numbered triad, White & Red & Blue & Yellow numbered quad
Fire Resistant	IEC 60331
Flame Retardant	NF C 32-070 cat C2 & IEC 60332-3-22
Low Smoke Emission	IEC 61034-1-2 > 60%
Other Properties	Number of strands depending on the diameter under collective screen: 1x(7x0.20mm): < 15mm 2x(7x0.20mm): > 15mm & < 25mm 3x(7x0.20mm): > 25mm
Minimum Bending Radius	15 X O.D.

Properties for outer sheath

Limiting Oxygen Index	LOI > 30%
Amount of halogen acid gas	IEC 60754-1 HCl < 0.1%
Oil Resistance	NF M 87-202 Annex A & ANSI/ICEA S-73-532 (4h, 70°C)
Sunlight Resistance	UL 1581 Section 1200
Temperature Installation	-15°C/50°C
Temperature Operating	-40°C/50°C



Nº Pairs	Cores	RT Insulation Nominal	RT Inner sheath	Ø over inner sheath	RT of armour nom.	RT of outer sheath nom.	Overall diameter	Weight approx.	BTC CODE
uds	mm ² /uds	mm	mm	mm	mm	mm	mm	kgr/km	
1	0.5mm ² /1	0,6	1,0	7,30	0,2	1,0	10,10	161	NFM87FJ-01IP05EGFA
3	0.5mm ² /1	0,6	1,0	11,53	0,2	1,1	14,53	276	NFM87FJ-03IP05EGFA
7	0.5mm ² /1	0,6	1,2	15,55	0,2	1,2	18,75	461	NFM87FJ-07IP05EGFA
12	0.5mm ² /1	0,6	1,3	19,88	0,2	1,3	23,28	679	NFM87FJ-12IP05EGFA
19	0.5mm ² /1	0,6	1,3	24,25	0,2	1,4	27,85	936	NFM87FJ-19IP05EGFA
27	0.5mm ² /1	0,6	1,4	28,73	0,2	1,5	32,53	1239	NFM87FJ-27IP05EGFA
1 (triple)	0.5mm ² /1	0,6	1,0	7,68	0,2	1,0	10,48	175	NFM87FJ-01IT05EGFA
1 (quad)	0.5mm ² /1	0,6	1,0	8,33	0,2	1,0	11,13	197	NFM87FJ-01IQ05EGFA
3 (triple)	0.5mm ² /1	0,6	1,0	12,65	0,2	1,2	15,85	337	NFM87FJ-03IT05EGFA
7 (triple)	0.5mm ² /1	0,6	1,2	17,80	0,2	1,3	21,20	592	NFM87FJ-07IT05EGFA
12 (triple)	0.5mm ² /1	0,6	1,3	22,47	0,2	1,4	26,07	877	NFM87FJ-12IT05EGFA
1	0.88mm ² /7	0,6	1,0	8,10	0,2	1,0	10,90	190	NFM87FJ-01IP09EGFA
3	0.88mm ² /7	0,6	1,0	12,99	0,2	1,2	16,19	343	NFM87FJ-03IP09EGFA
7	0.88mm ² /7	0,6	1,2	17,59	0,2	1,3	20,99	588	NFM87FJ-07IP09EGFA
12	0.88mm ² /7	0,6	1,3	22,58	0,2	1,4	26,18	879	NFM87FJ-12IP09EGFA
19	0.88mm ² /7	0,6	1,4	27,85	0,2	1,5	31,65	1252	NFM87FJ-19IP09EGFA
27	0.88mm ² /7	0,6	1,5	32,98	0,2	1,6	36,98	1668	NFM87FJ-27IP09EGFA
1 (triple)	0.88mm ² /7	0,6	1,0	8,54	0,2	1,0	11,34	209	NFM87FJ-01IT09EGFA
1 (quad)	0.88mm ² /7	0,6	1,0	9,29	0,2	1,0	12,09	240	NFM87FJ-01IQ09EGFA
3 (triple)	0.88mm ² /7	0,6	1,1	14,49	0,2	1,2	17,69	427	NFM87FJ-03IT09EGFA
7 (triple)	0.88mm ² /7	0,6	1,3	20,40	0,2	1,3	23,80	772	NFM87FJ-07IT09EGFA
12 (triple)	0.88mm ² /7	0,6	1,4	25,79	0,2	1,5	29,59	1173	NFM87FJ-12IT09EGFA
1	1.5mm ² /7	0,6	1,0	8,90	0,2	1,0	11,70	223	NFM87FJ-01IP15EGFA
3	1.5mm ² /7	0,6	1,1	14,65	0,2	1,2	17,85	423	NFM87FJ-03IP15EGFA
7	1.5mm ² /7	0,6	1,3	19,83	0,2	1,3	23,23	744	NFM87FJ-07IP15EGFA
12	1.5mm ² /7	0,6	1,4	25,48	0,2	1,5	29,28	1140	NFM87FJ-12IP15EGFA
19	1.5mm ² /7	0,6	1,5	31,45	0,2	1,6	35,45	1639	NFM87FJ-19IP15EGFA
27	1.5mm ² /7	0,6	1,6	37,23	0,2	1,7	41,43	2192	NFM87FJ-27IP15EGFA
1 (triple)	1.5mm ² /7	0,6	1,0	9,40	0,2	1,0	12,20	249	NFM87FJ-01IT15EGFA
1 (quad)	1.5mm ² /7	0,6	1,0	10,25	0,2	1,1	13,25	296	NFM87FJ-01IQ15EGFA
3 (triple)	1.5mm ² /7	0,6	1,2	16,33	0,2	1,3	19,73	544	NFM87FJ-03IT15EGFA
7 (triple)	1.5mm ² /7	0,6	1,3	22,80	0,2	1,4	26,40	983	NFM87FJ-07IT15EGFA
12 (triple)	1.5mm ² /7	0,6	1,5	29,11	0,2	1,5	32,91	1520	NFM87FJ-12IT15EGFA



NF M 87-202 EI FA FR LSZH

Cable	Instrument Cable
Standard	NF M 87-202
Voltage	500V
Description	Copper, Single & Multi Pair, Mica, XLPE- Insulation, Individual Screen, LSZH Jacket, Collective, LSZH Inner Sheath, Double Steel Tape, LSZH Sheath
Cable type	NF M 87-202 EG FA

Electrical data a 20°C

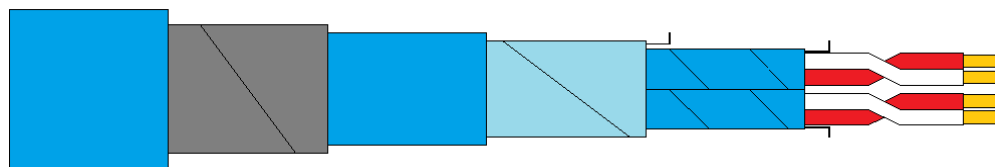
Conductor size	Nom	mm ²	0,5	0,88	1,5
Conductor resistance	Max	Ω/km			
solid / Class 1			37,5	-	-
stranded / Class 2			-	21,4	12,3
and additional 2% of the maximum resistance has been allowed for cable of multipair construction					
Insulation resistance	Min.	MΩxkm			
Individual conductor			1000		
Mutual capacitance 1kHz	Max.	nF/km			
All cables			145	160	200
L/R Ratio	Max.	μH/Ω	20	35	60
Test voltage		V			
Ums core: core			1500		
Ums core: screen			1000		
Ums screen: screen			750		

Properties for cable

Code Colour	White & Red numbered jacket, White & Red & Blue numbered jacket,
Fire Resistant	IEC 60331
Flame Retardant	NF C 32-070 cat C2 & IEC 60332-3-22
Low Smoke Emission	IEC 61034-1-2 > 60%
Other Properties	Number of strands depending on the diameter under collective screen: 1x(7x0.20mm): < 15mm 2x(7x0.20mm): > 15mm & < 25mm 3x(7x0.20mm): > 25mm
Minimum Bending Radius	15 X O.D.

Properties for outer sheath

Limiting Oxygen Index	LOI > 30%
Amount of halogen acid gas	IEC 60754-1 HCl < 0.1%
Oil Resistance	NF M 87-202 Annex A & ANSI/ICEA S-73-532 (4h, 70°C)
Sunlight Resistance	UL 1581 Section 1200
Temperature Installation	-15°C/50°C
Temperature Operating	-40°C/50°C



Nº Pairs	Cores	RT Insulation Nominal	RT Inner sheath	Ø over inner sheath	RT of armour nom.	RT of outer sheath nom.	Overall diameter	Weight approx.	BTC CODE
uds	mm ² /uds	mm	mm	mm	mm	mm	mm	kgr/km	

3	0.5mm ² /1	0,6	1,2	15,57	0,2	1,2	18,77	436	NFM87FJ-03IP05EIFA
7	0.5mm ² /1	0,6	1,3	20,82	0,2	1,3	24,22	733	NFM87FJ-07IP05EIFA
12	0.5mm ² /1	0,6	1,4	27,91	0,2	1,5	31,71	1139	NFM87FJ-12IP05EIFA
19	0.5mm ² /1	0,6	1,6	34,67	0,2	1,6	38,67	1648	NFM87FJ-19IP05EIFA
27	0.5mm ² /1	0,6	1,7	41,07	0,2	1,8	45,47	2211	NFM87FJ-27IP05EIFA

3 (triple)	0.5mm ² /1	0,6	1,2	16,34	0,2	1,3	19,74	497	NFM87FJ-03IT05EIFA
7 (triple)	0.5mm ² /1	0,6	1,3	21,89	0,2	1,4	25,49	853	NFM87FJ-07IT05EIFA
12 (triple)	0.5mm ² /1	0,6	1,5	29,60	0,2	1,5	33,40	1342	NFM87FJ-12IT05EIFA

3	0.88mm ² /7	0,6	1,2	17,19	0,2	1,3	20,59	517	NFM87FJ-03IP09EIFA
7	0.88mm ² /7	0,6	1,3	23,08	0,2	1,4	26,68	886	NFM87FJ-07IP09EIFA
12	0.88mm ² /7	0,6	1,5	31,24	0,2	1,6	35,24	1411	NFM87FJ-12IP09EIFA
19	0.88mm ² /7	0,6	1,6	38,60	0,2	1,7	42,80	2016	NFM87FJ-19IP09EIFA
27	0.88mm ² /7	0,6	1,8	45,96	0,2	1,8	50,36	2722	NFM87FJ-27IP09EIFA

3 (triple)	0.88mm ² /7	0,6	1,2	18,08	0,2	1,3	21,48	592	NFM87FJ-03IT09EIFA
7 (triple)	0.88mm ² /7	0,6	1,3	24,32	0,2	1,4	27,92	1041	NFM87FJ-07IT09EIFA
12 (triple)	0.88mm ² /7	0,6	1,5	32,96	0,2	1,6	36,96	1671	NFM87FJ-12IT09EIFA

3	1.5mm ² /7	0,6	1,2	18,81	0,2	1,3	22,21	603	NFM87FJ-03IP15EIFA
7	1.5mm ² /7	0,6	1,4	25,53	0,2	1,5	29,33	1087	NFM87FJ-07IP15EIFA
12	1.5mm ² /7	0,6	1,6	34,57	0,2	1,6	38,57	1714	NFM87FJ-12IP15EIFA
19	1.5mm ² /7	0,6	1,7	42,74	0,2	1,8	47,14	2493	NFM87FJ-19IP15EIFA
27	1.5mm ² /7	0,6	1,8	50,66	0,2	1,9	55,26	3336	NFM87FJ-27IP15EIFA

3 (triple)	1.5mm ² /7	0,6	1,3	20,01	0,2	1,3	23,41	713	NFM87FJ-03IT15EIFA
7 (triple)	1.5mm ² /7	0,6	1,4	26,93	0,2	1,5	30,73	1291	NFM87FJ-07IT15EIFA
12 (triple)	1.5mm ² /7	0,6	1,6	36,51	0,2	1,7	40,71	2078	NFM87FJ-12IT15EIFA