

TECHNICAL SPECIFICATIONS FOR TECHNICAL PROJECT

Nr proiect:
2004/RO/16/P/PA/003

Specialitatea:
COMMUNICATION
for
SIGNALLING

Objectiv: REHABILITATION OF THE RAILWAY LINE BRAȘOV - SIMERIA,
COMPONENT PART OF THE IV PAN-EUROPEAN CORRIDOR, FOR
THE TRAINS CIRCULATION WITH MAXIMUM SPEED OF 160 KM/H.
Section : **BRAȘOV - SIGHIȘOARA**

Annex 1/3



Annex FO_1

Table concerning the behaviour of aerial cable at climatic stresses

(MODEL)

| Temperature T(°C) | | -40°w | -30° | -20° | -10° | -5°gw | 0° | 10° | 20° | 30° | 40° | 50° | 65°w |
|---|--|-------|------|------|------|-------|----|-----|-----|-----|-----|-----|------|
| Unitary load (weight/ice/wind) G (daN/m) | | | | | | | | | | | | | |
| Fi = 30 daN at 20°C | Sag S(m) | | | | | | | | | | | | |
| | Cable tensile loading F(daN) | | | | | | | | 30 | | | | |
| | Cable elongation ΔI (%) | | | | | | | | | | | | |
| Fi = 40 daN at 20°C | Sag S(m) | | | | | | | | | | | | |
| | Cable tensile loading F(daN) | | | | | | | | 40 | | | | |
| | Cable elongation ΔI (%) | | | | | | | | | | | | |
| Fi = 50 daN at 20°C | Sag S(m) | | | | | | | | | | | | |
| | Cable tensile loading F(daN) | | | | | | | | 50 | | | | |
| | Cable elongation ΔI (%) | | | | | | | | | | | | |
| Fi = 60 daN at 20°C | Sag S(m) | | | | | | | | | | | | |
| | Cable tensile loading F(daN) | | | | | | | | 60 | | | | |
| | Cable elongation ΔI (%) | | | | | | | | | | | | |
| Fi = 70 daN at 20°C | Sag S(m) | | | | | | | | | | | | |
| | Cable tensile loading F(daN) | | | | | | | | 70 | | | | |
| | Cable elongation ΔI (%) | | | | | | | | | | | | |
| Fi = 80 daN at 20°C | Sag S(m) | | | | | | | | | | | | |
| | Cable tensile loading F(daN) | | | | | | | | 80 | | | | |
| | Cable elongation ΔI (%) | | | | | | | | | | | | |
| Fi = 90 daN at 20°C | Sag S(m) | | | | | | | | | | | | |
| | Cable tensile loading F(daN) | | | | | | | | 90 | | | | |
| | Cable elongation ΔI (%) | | | | | | | | | | | | |
| Fi = 100 daN at 20°C | Sag S(m) | | | | | | | | | | | | |
| | Cable tensile loading F(daN) | | | | | | | | 100 | | | | |
| | Cable elongation ΔI (%) | | | | | | | | | | | | |

Note: g = glazed frost, w =wind, gw = glazed frost + wind
Fi = installing tensile force (pre-stretching of cable)

| | | | | | |
|-------------------|---------------------|---|-----------------|---------------------|---|
| Elaborated | Name and first name | Signature | Verified | Name and first name | Signature |
| | Gabriela Trifan |  | | Amodio Pino |  |

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