



# ROUTINE TEST

LV Power & Control Cables

Date :05/01/29  
Type & Size: 1X25 NA2XY

| Cable Elements                                           | Results              |       |       | Standard Value                    |
|----------------------------------------------------------|----------------------|-------|-------|-----------------------------------|
| Conductor:                                               | AL-CLASS 2           |       |       | AL-CLASS 2                        |
| Conductor ( N0*Dia )                                     | 7x2.12               |       |       | —                                 |
| Conductor Resistance ( $\Omega$ / km )<br>At 20 °c (MAX) | 1.18                 |       |       | 1.20                              |
| Insulation:                                              | Min                  | Mean  | Max   |                                   |
| Thickness :                                              | 0.90                 | 0.95  | 1.00  | 0.90                              |
| Nominal Diameter :                                       | 8.10                 | 8.20  | 8.30  | —                                 |
| Color Insulation                                         | Black                |       |       | Black                             |
| Insulation material                                      | Xlpe                 |       |       | Xlpe                              |
| Sheath                                                   | Min                  | Mean  | Max   |                                   |
| Sheath ( Thickness )                                     | 1.30                 | 1.40  | 1.45  | تبصره : هر طرف از 1.24 کمتر نباشد |
| Overall Diameter                                         | 10.70                | 11.00 | 11.20 | —                                 |
| Jacket material                                          | PVC-ST1              |       |       | PVC-ST1                           |
| Volumetric resistance 90c                                | 4.8x10 <sup>12</sup> |       |       | 10 <sup>12</sup>                  |
| ELONGATION(Before Insulation aging)                      | 436                  |       |       | 200                               |
| ELONGATION (after Insulation aging)                      | 420                  |       |       | 200                               |
| TENSILE (Before Insulation aging)                        | 14.20                |       |       | 12.5                              |
| TENSILE(after Insulation aging)                          | 14.03                |       |       | 12.5                              |
| ELONGATION(amount of changes)                            | -3.66                |       |       | ±25                               |
| TENSILE (amount of changes)                              | -1.19                |       |       | ±25                               |
| ELONGATION(Before jacket aging)                          | 241                  |       |       | 150                               |
| ELONGATION (after jacket aging)                          | 223                  |       |       | 150                               |

|                                                                                                                                                  |                 |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| <b>TENSILE (Before jacket aging)</b>                                                                                                             | <b>15.62</b>    | <b>12.5</b>     |
| <b>TENSILE(after jacket aging)</b>                                                                                                               | <b>15.40</b>    | <b>12.5</b>     |
| <b>ELONGATION(amount of changes)</b>                                                                                                             | <b>-7.46</b>    | <b>±25</b>      |
| <b>TENSILE (amount of changes)</b>                                                                                                               | <b>-1.40</b>    | <b>±25</b>      |
| <b>Long Term Res . To DC Voltage<br/>8.4kv</b>                                                                                                   | <b>No crack</b> | <b>No crack</b> |
| <b>Cable mark : ETEMAD CABLE CO.1x25 mm<sup>2</sup> NA2XY 3569-1( 0.6/1KV) 6668434966</b><br><b>شماره پیامک اصالت کالا 10001517 MADE IN IRAN</b> |                 |                 |