



# ROUTINE TEST

LV Power & Control Cables

Date :05/02/19  
Type & Size: 1X16 NA2XY

| Cable Elements                                           | Results              |      |      | Standard Value                  |
|----------------------------------------------------------|----------------------|------|------|---------------------------------|
| Conductor:                                               | AL-CLASS 2           |      |      | AL-CLASS 2                      |
| Conductor ( N0*Dia )                                     | 7x1.70               |      |      | —                               |
| Conductor Resistance ( $\Omega$ / km )<br>At 20 °c (MAX) | 1.86                 |      |      | 1.91                            |
| Insulation:                                              | Min                  | Mean | Max  |                                 |
| Thickness :                                              | 0.70                 | 0.75 | 0.80 | 0.70                            |
| Nominal Diameter :                                       | 6.50                 | 6.60 | 6.70 | —                               |
| Color Insulation                                         | Black                |      |      | Black                           |
| Insulation material                                      | Xlpe                 |      |      | Xlpe                            |
| Sheath                                                   | Min                  | Mean | Max  |                                 |
| Sheath ( Thickness )                                     | 1.30                 | 1.35 | 1.40 | تبصره :هرطرف از 1.24 کمتر نباشد |
| Overall Diameter                                         | 9.10                 | 9.30 | 9.50 | —                               |
| Jacket material                                          | PVC-ST1              |      |      | PVC-ST1                         |
| Volumetric resistance 90c                                | 5.6x10 <sup>12</sup> |      |      | 10 <sup>12</sup>                |
| ELONGATION(Before Insulation aging)                      | 450                  |      |      | 200                             |
| ELONGATION (after Insulation aging)                      | 410                  |      |      | 200                             |
| TENSILE (Before Insulation aging)                        | 14.20                |      |      | 12.5                            |
| TENSILE(after Insulation aging)                          | 14.05                |      |      | 12.5                            |
| ELONGATION(amount of changes)                            | -8.88                |      |      | ±25                             |
| TENSILE (amount of changes)                              | -1.05                |      |      | ±25                             |
| ELONGATION(Before jacket aging)                          | 240                  |      |      | 150                             |
| ELONGATION (after jacket aging)                          | 220                  |      |      | 150                             |

|                                                                                                                                                  |                 |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| <b>TENSILE (Before jacket aging)</b>                                                                                                             | <b>15.80</b>    | <b>12.5</b>     |
| <b>TENSILE(after jacket aging)</b>                                                                                                               | <b>15.50</b>    | <b>12.5</b>     |
| <b>ELONGATION(amount of changes)</b>                                                                                                             | <b>-8.33</b>    | <b>±25</b>      |
| <b>TENSILE (amount of changes)</b>                                                                                                               | <b>-1.89</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.1x16 mm<sup>2</sup> NA2XY 3569-1( 0.6/1KV) 6668434966</b><br><b>شماره پیامک اصالت کالا 10001517 MADE IN IRAN</b> |                 |                 |