

QUESTIONS AND ANSWERS

1. Question:

Outer sheath extrusion line for production of MV and HV cables. The line must enable extrusion of PE, PVC, HFFR outer sheath onto cable cores with longitudinally applied Al or Cu tape with copolymer layer closed in the overlap, or directly onto cable cores without the tape. The line must enable extrusion of one or two layers with the possibility of extruding strips in defined colour. The line must enable application of marking on the extruded outer sheath. Later on in extruder specification only two extruders is specified and crossheads are not specified for two layers plus stripe. So question is that is two layer plus stripe configuration needed or not?

Answer:

In the case of two-layer configuration the stripe is not needed.

2. Question:

What is the stripe configuration? 2x15%, 3x10%....?

Answer:

Single layer extrusion with stripes as follows:

- 1 stripe: 30%
- 2 stripes: 2x15%
- 3 stripes: 3x10%

3. Question:

Can you tell to me what is PEp material? Semiconductive PE?

Answer:

PEp – Semi-Conductive PE.

4. Question:

Two sizes of extruder crossheads are required, and the Request for Proposal contains a requirement of possibility of extruding outer sheath from 2 different materials at the same time during the extrusion of 2 layers. Do these different materials have similar properties or not? It is very important, because of both materials have different properties the crossheads would have to be thermally separated.

Answer:

Materials to be used (PE + LSOH or PE + PVC as well as PE +Semi-Con PE), have different working temperatures.

In our opinion two crossheads would be necessary:

- *for diameters up to 80 mm,*
- *for diameters of more than 80 mm.*

Both crossheads should enable extrusion of the abovementioned materials at the same time.

5. Question:

Do all the components have to be offered by Tenderer, or can some of them be taken care of by Telefonika, for example: cable cutter, drum pushers, cranes for tape pads loading, etc?

Answer:

All the components (including cable cutters, drum pushers, crane, etc.) should be offered by Tenderer.

6. Question:

Can spot welding, Tape Splicing Einheit – be used for tape application or does it have to be laser welding?

Answer:

Spot welding is not accepted. Laser welding is preferable, or a different method, which could be approved by the Contracting Entity.

7. Question:

How are you going to replace the pay-off drum with the line stop with only one pay-off device?

Answer:

During the drum replacement in the pay-off the line would be stopped.

8. Question:

With the tape pad diameter of up to 1200 mm in the line height of 1000 mm will the tape pay-off device have to be deeper?

Answer:

The tape pay-off will have to be deeper.

9. Question:

Can you confirm that configuration of extrusion group for sheathing line is as follows:

| | MXC 120-24D | MXC 150-24D |
|-------------------------------|--------------------|--------------------|
| Single layer | | |
| PVC | x | |
| LDPE | x | |
| MDPE | x | |
| HDPE | x | |
| HFFR | x | |
| PVC | | x |
| LDPE | | x |
| MDPE | | x |
| HDPE | | x |
| HFFR | | x |
| Two layers | Inner layer | Outer layer |
| PVC | x | x |
| LDPE | x | x |
| MDPE | x | x |
| HDPE | x | x |
| HFFR | x | x |
| Single layer + Semicon | Inner layer | Outer layer |
| PVC | x | |
| LDPE | x | |
| MDPE | x | |
| HDPE | x | |
| HFFR | x | |
| Semicon | | x |
| Single layer + Stripe | Stripe | Jacket |
| PVC | | x |
| LDPE | | x |
| MDPE | | x |
| HDPE | | x |
| HFFR | | x |
| PVC | x | |
| LDPE | x | |

| | | |
|-------------|----------|--|
| MDPE | x | |
| HDPE | x | |
| HFFR | x | |

Answer:
This is correct.