

## Halogen lamps low-voltage with reflector

### MASTERLine ES 12V- Dichroic coated low-voltage

- Heat-reflecting coating on the inner lamp burner reflects waste heat back to the filament so less energy is needed to operate the lamp
- Revolutionary compact and precision-shaped single-ended burner and high-performance coating for maximum lamp performance
- Bright, sparkling white halogen light
- Excellent colour rendering
- Complex reflector design for excellent beam performance
- Used in accent and general lighting applications in homes, shops, hotels and restaurants, where energy efficiency and low maintenance are important and especially in art galleries, museums and exhibitions

| Part Number   | Type       | Base  | Beam Angle | Watt | Package (pcs/pack) |
|---------------|------------|-------|------------|------|--------------------|
| <b>102375</b> | MLES/20/8  | GU5.3 | 8°         | 20   | 20                 |
| <b>102386</b> | MLES/20/36 | GU5.3 | 36°        | 20   | 20                 |
| <b>102397</b> | MLES/30/8  | GU5.3 | 8°         | 30   | 20                 |
| <b>102408</b> | MLES/30/24 | GU5.3 | 24°        | 30   | 20                 |
| <b>102419</b> | MLES/30/36 | GU5.3 | 36°        | 30   | 20                 |
| <b>102430</b> | MLES/30/60 | GU5.3 | 60°        | 30   | 20                 |
| <b>102441</b> | MLES/35/8  | GU5.3 | 8°         | 35   | 20                 |
| <b>102452</b> | MLES/35/24 | GU5.3 | 24°        | 35   | 20                 |
| <b>102463</b> | MLES/35/36 | GU5.3 | 36°        | 35   | 20                 |
| <b>102474</b> | MLES/35/60 | GU5.3 | 60°        | 35   | 20                 |
| <b>102485</b> | MLES/45/8  | GU5.3 | 8°         | 45   | 20                 |
| <b>102496</b> | MLES/45/24 | GU5.3 | 24°        | 45   | 20                 |
| <b>102507</b> | MLES/45/36 | GU5.3 | 36°        | 45   | 20                 |
| <b>102518</b> | MLES/45/60 | GU5.3 | 60°        | 45   | 20                 |



### Brilliantline Dichroic 12V - Low-voltage, xenon gas-filled

- Low-voltage, xenon gas-filled halogen burner with axial filament optically positioned in a glass reflector
- High-intensity beam with a clearly defined beam spread
- Reflector has a light-reflecting, light-transmitting hard dichroic coating
- Wide range of 35mm and 50 mm types
- UV-Block front glass
- Excellent colour rendering
- Ideally suited for accent, task and decorative lighting in shops, stores, hotels, restaurants

| Part Number   | Type       | Base  | Beam Angle | Watt | Package (pcs/pack) |
|---------------|------------|-------|------------|------|--------------------|
| <b>102529</b> | BP35/20/10 | GU4   | 10°        | 20   | 50                 |
| <b>102540</b> | BP35/20/30 | GU4   | 30°        | 20   | 50                 |
| <b>102551</b> | BP35/35/10 | GU4   | 10°        | 35   | 50                 |
| <b>102562</b> | BP35/35/30 | GU4   | 30°        | 35   | 50                 |
| <b>102573</b> | BP50/20/10 | GU5.3 | 10°        | 20   | 50                 |
| <b>102584</b> | BP50/20/24 | GU5.3 | 24°        | 20   | 50                 |
| <b>102595</b> | BP50/20/36 | GU5.3 | 36°        | 20   | 50                 |



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## Halogen lamps low-voltage with reflector

(continue from previous page)

### Brilliantline Dichroic 12V - Low-voltage, xenon gas-filled

- Excellent colour rendering

| Part Number   | Type       | Base  | Beam Angle | Watt | Package (pcs/pack) |
|---------------|------------|-------|------------|------|--------------------|
| <b>102606</b> | BP50/20/60 | GU5.3 | 60°        | 20   | 50                 |
| <b>102617</b> | BP50/35/10 | GU5.3 | 10°        | 35   | 50                 |
| <b>102628</b> | BP50/35/24 | GU5.3 | 24°        | 35   | 50                 |
| <b>102639</b> | BP50/35/36 | GU5.3 | 36°        | 35   | 50                 |
| <b>102650</b> | BP50/35/60 | GU5.3 | 60°        | 35   | 50                 |
| <b>102661</b> | BP50/50/10 | GU5.3 | 10°        | 50   | 50                 |
| <b>102672</b> | BP50/50/24 | GU5.3 | 24°        | 50   | 50                 |
| <b>102683</b> | BP50/50/36 | GU5.3 | 36°        | 50   | 50                 |
| <b>102694</b> | BP50/50/60 | GU5.3 | 60°        | 50   | 50                 |



### Diamondline 12V-Low-voltage,high-pressure xenon gas-filled cool daylight

- Low-voltage, high-pressure xenon gas-filled cool day light halogen burner with axial filament optically aligned in a glass reflector
- Reflector has a heat-transmitting, light-reflecting hard dichroic coating
- Cool day light colour appearance
- Excellent colour rendering
- Suitable for accent, task lighting and decorative applications, especially in jewelry shops (sparkling diamonds, silver, gold, crystal)

| Part Number   | Type          | Base  | Beam Angle | Watt | Package (pcs/pack) |
|---------------|---------------|-------|------------|------|--------------------|
| <b>102705</b> | DIAMOND/35/10 | GU5.3 | 10°        | 35   | 50                 |
| <b>102716</b> | DIAMOND/35/24 | GU5.3 | 24°        | 35   | 50                 |
| <b>102727</b> | DIAMOND/35/36 | GU5.3 | 36°        | 35   | 50                 |
| <b>102738</b> | DIAMOND/50/10 | GU5.3 | 10°        | 50   | 50                 |
| <b>102749</b> | DIAMOND/50/24 | GU5.3 | 24°        | 50   | 50                 |
| <b>102760</b> | DIAMOND/50/36 | GU5.3 | 36°        | 50   | 50                 |



### Accentline 12V - Low-voltage with front glass

- Dichroic reflector coating is heat-transmitting towards the back and light-reflecting towards the front of the lamp
- UV-Block burner
- Excellent colour rendering
- Suitable for accent,task lighting and decorative applications in homes,shops,hotels & restaurants

| Part Number   | Type       | Base  | Beam Angle | Watt | Package (pcs/pack) |
|---------------|------------|-------|------------|------|--------------------|
| <b>102771</b> | ACCL/20/10 | GU5.3 | 10°        | 20   | 50                 |
| <b>102782</b> | ACCL/20/36 | GU5.3 | 36°        | 20   | 50                 |
| <b>102793</b> | ACCL/35/10 | GU5.3 | 10°        | 35   | 50                 |
| <b>102804</b> | ACCL/35/36 | GU5.3 | 36°        | 35   | 50                 |
| <b>102815</b> | ACCL/50/10 | GU5.3 | 10°        | 50   | 50                 |
| <b>102826</b> | ACCL/50/24 | GU5.3 | 24°        | 50   | 50                 |
| <b>102837</b> | ACCL/50/36 | GU5.3 | 36°        | 50   | 50                 |
| <b>102848</b> | ACCL/50/60 | GU5.3 | 60°        | 50   | 50                 |



## Halogen lamps low-voltage with reflector

### MASTERLine 111 12V-Low-voltage with high-purity aluminium reflector

- Low-voltage halogen reflector lamp with double-ended burner and high-purity aluminium reflector
- Unique infra-red coated burner technology
- Revolutionary compact, precision burner for maximum performance of the infra-red reflecting coating
- Ceramic filament shield reduces glare and improves beam shape
- Flat profile, very tight beam pattern and excellent glare control
- UV block quartz glass
- Excellent light source for general lighting and especially creative accent lighting in shops, restaurants, hotels, and especially for galleries, exhibitions and museums

| Part Number   | Type           | Base | Beam Angle | Watt | Package (pcs/pack) |
|---------------|----------------|------|------------|------|--------------------|
| <b>102859</b> | ML111/12/30/8  | G53  | 8°         | 30   | 6                  |
| <b>102870</b> | ML111/12/30/24 | G53  | 24°        | 30   | 6                  |
| <b>102881</b> | ML111/12/45/8  | G53  | 8°         | 45   | 6                  |
| <b>102892</b> | ML111/12/45/24 | G53  | 24°        | 45   | 6                  |
| <b>102903</b> | ML111/12/45/45 | G53  | 45°        | 45   | 6                  |
| <b>102914</b> | ML111/12/60/8  | G53  | 8°         | 60   | 6                  |
| <b>102925</b> | ML111/12/60/24 | G53  | 24°        | 60   | 6                  |
| <b>102936</b> | ML111/12/60/45 | G53  | 45°        | 60   | 6                  |



### Aluline 111 12V-Low-voltage with high-purity aluminium reflector

- Low-voltage halogen reflector lamp with high-purity aluminium reflector of 111 mm
- Metal cap to shield filament to reduce glare and improve beam shape
- UV block quartz glass
- Excellent light source for general lighting and especially creative accent lighting in shops, restaurants, hotels, and especially for galleries, exhibitions and museums

| Part Number   | Type            | Base | Beam Angle | Watt | Package (pcs/pack) |
|---------------|-----------------|------|------------|------|--------------------|
| <b>102947</b> | AL111/12/50/8   | G53  | 8°         | 50   | 6                  |
| <b>102958</b> | AL111/12/50/24  | G53  | 24°        | 50   | 6                  |
| <b>102969</b> | AL111/12/75/8   | G53  | 8°         | 75   | 6                  |
| <b>102980</b> | AL111/12/75/24  | G53  | 24°        | 75   | 6                  |
| <b>102991</b> | AL111/12/75/45  | G53  | 45°        | 75   | 6                  |
| <b>103002</b> | AL111/12/100/8  | G53  | 8°         | 100  | 6                  |
| <b>103013</b> | AL111/12/100/24 | G53  | 24°        | 100  | 6                  |
| <b>103024</b> | AL111/12/100/45 | G53  | 45°        | 100  | 6                  |



## Halogen lamps low-voltage with reflector

### Aluline 37/56-Low-voltage in anodised aluminium reflector

- Low-voltage halogen burner in a lightweight, high-gloss anodised aluminium reflector giving a white halogen light
- Integrated protective front glass (clear or frosted)
- High-intensity beam with an extremely clearly defined beam spread (clear glass versions only)
- Excellent colour rendering
- Excellent light source for accent and general lighting in shops, home, restaurants, galleries, exhibitions and museums

| Part Number   | Type            | Base  | Beam Angle | Voltage | Watt | Package (pcs/pack) |
|---------------|-----------------|-------|------------|---------|------|--------------------|
| <b>103035</b> | AL37/6/15/6     | Ba15d | 6°         | 6       | 15   | 50                 |
| <b>103046</b> | AL37/12/20/6    | Ba15d | 6°         | 12      | 20   | 50                 |
| <b>103057</b> | AL37/12/20/18   | Ba15d | 18°        | 12      | 20   | 50                 |
| <b>103068</b> | AL37/12/20/32   | Ba15d | 32°        | 12      | 20   | 50                 |
| <b>103079</b> | AL37/12/20/32FR | Ba15d | 32°        | 12      | 20   | 50                 |
| <b>103090</b> | AL56/6/15/4     | B15   | 4°         | 6       | 15   | 50                 |
| <b>103101</b> | AL56/6/15/14    | B15   | 14°        | 6       | 15   | 50                 |
| <b>103112</b> | AL56/6/35/14    | B15   | 14°        | 6       | 35   | 50                 |
| <b>103123</b> | AL56/12/50/10   | B15   | 10°        | 12      | 50   | 50                 |
| <b>103134</b> | AL56/12/50/25   | B15   | 25°        | 12      | 50   | 50                 |



### EcoHalo 12V-Low-voltage, a spot of crisp white light

- Bright, sparkling halogen light to put your objects in the spotlight
- Lower replacement costs due to longer burning hours
- Up to 30% energy saving

| Part Number   | Type           | Base  | Beam Angle | Watt | Lamp Shape | Package (pcs/pack) |
|---------------|----------------|-------|------------|------|------------|--------------------|
| <b>103145</b> | EC30/25/GU53/B | GU5.3 | 36°        | 25   | MR16       | 10                 |
| <b>103156</b> | ECOHALO35W/BL  | GU5.3 | 36°        | 35   | MR16       | 10                 |
| <b>103167</b> | ECHAL/14/GU53B | GU5.3 | 36°        | 14   | MR16       | 10                 |
| <b>103178</b> | ECHAL/14/GU4/B | GU4   | 30°        | 14   | MR11       | 10                 |
| <b>103189</b> | ECHAL/25/GU4/B | GU4   | 30°        | 25   | MR11       | 10                 |

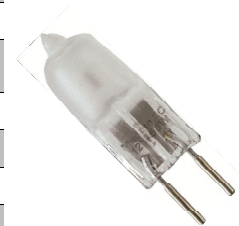


## Halogen lamps low-voltage without reflector

### Capsuleline -Low-voltage halogen capsule giving crisp white halogen light

- Single-ended low-voltage halogen capsule giving crisp white halogen light
- Sturdy, low-pressure lamp with UV-Block glass (IEC 357)
- Gas-filled ( $\leq 2.5$  bar) lamps can be used in luminaires without a front glass in accordance with IEC 598
- Axial filament for higher light output in combination with luminaires and a uniform beam
- Excellent colour rendering
- Suitable for task lighting and decorative applications in homes, shops, hotels and restaurants

| Part Number   | Type            | Base   | Watt | Voltage | Bulb finish | Package (pcs/pack) |
|---------------|-----------------|--------|------|---------|-------------|--------------------|
| <b>103200</b> | CLP/12/35/FR/GY | GY6.35 | 35   | 12      | frosted     | 100                |
| <b>103211</b> | CLP/12/5/CL/G4  | G4     | 5    | 12      | clear       | 100                |
| <b>103222</b> | CPS/12/10/CL/G4 | G4     | 10   | 12      | clear       | 100                |
| <b>103233</b> | CLP/12/10/CL/G4 | G4     | 10   | 12      | clear       | 100                |
| <b>103244</b> | CPS/12/20/CL/G4 | G4     | 20   | 12      | clear       | 100                |
| <b>103255</b> | CLP/12/20/CL/G4 | G4     | 20   | 12      | clear       | 100                |
| <b>103266</b> | CLP/12/20/FR/G4 | G4     | 20   | 12      | frosted     | 100                |
| <b>103277</b> | CLP/24/20/CL/G4 | G4     | 20   | 24      | clear       | 100                |
| <b>103288</b> | CLP/12/20/CL/GY | GY6.35 | 20   | 12      | clear       | 100                |
| <b>103299</b> | CLP/12/20/FR/GY | GY6.35 | 20   | 12      | frosted     | 100                |
| <b>103310</b> | CLP/12/35/CL/GY | GY6.35 | 35   | 12      | clear       | 100                |
| <b>103321</b> | CPS/12/50/CL/GY | GY6.35 | 50   | 12      | clear       | 100                |
| <b>103332</b> | CLP/12/50/CL/GY | GY6.35 | 50   | 12      | clear       | 100                |
| <b>103343</b> | CLP/12/50/FR/GY | GY6.35 | 50   | 12      | frosted     | 100                |
| <b>103354</b> | CLP/24/50/CL/GY | GY6.35 | 50   | 24      | clear       | 100                |
| <b>103365</b> | CLP/12/75/CL/GY | GY6.35 | 75   | 12      | clear       | 100                |
| <b>103376</b> | CLP12/100/CL/GY | GY6.35 | 100  | 12      | clear       | 100                |
| <b>103387</b> | CLP24/100/CL/GY | GY6.35 | 100  | 24      | clear       | 100                |



### EcoHalo Caps -Low-voltage, compact shape, crisp white light

- Bright, sparkling halogen light to create the right atmosphere
- Fully dimmable, from 0 to 100%, to meet different brightness requirements
- Lower replacement cost due to longer burning hours

| Part Number   | Type            | Base   | Watt | Voltage | Bulb finish | Package (pcs/pack) |
|---------------|-----------------|--------|------|---------|-------------|--------------------|
| <b>103398</b> | ECHAL/14/G4/B   | G4     | 14   | 12V     | clear       | 10                 |
| <b>103409</b> | ECHAL/25GY635BC | GY6.35 | 25   | 12V     | clear       | 10                 |
| <b>103420</b> | ECHAL/35GY635BC | GY6.35 | 35   | 12V     | clear       | 10                 |

